



## SO-2000 Posterior segment OCT

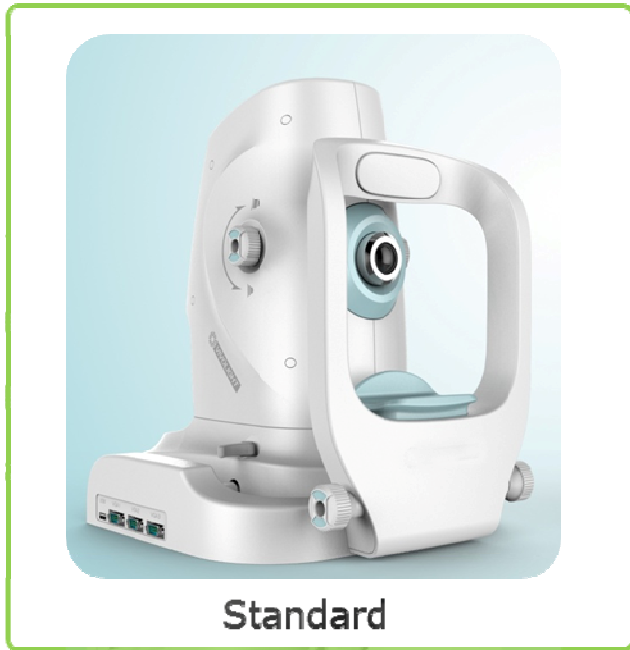
Optical Coherence Tomography (OCT) is a novel high sensitivity, non-contacting, high resolution and non-invasive imaging technique. It is capable for acquiring clear images of fine structure and pathological changes of the fundus (the macula, optic disc), as well as high speed in vivo images of retina. Based on OCT images, quantitative analysis is also possible. This is crucial for diagnosis of optic nerve damage, and for diagnosis and treatment follow-up of glaucoma.



### Features

- ❑ OCT utilizes low coherence of broadband light to suppress background noise. It obtains resolution which is 1~2 magnitudes higher than conventional ultrasound imaging ( $\mu m$ ), and very high signal-to-noise ratio (over 100 dB).
- ❑ OCT employs near-infrared light source. It does no harm to human body. Both transparent and nontransparent tissue can be imaged.
- ❑ It is non-contacting and non-invasive. In vivo test under natural condition can be done and test result is unrelated to thermal and mechanical properties of the tested object.
- ❑ Systems for OCT are usually compact and easy-to-operate, which makes this technique especially promising for clinical application.

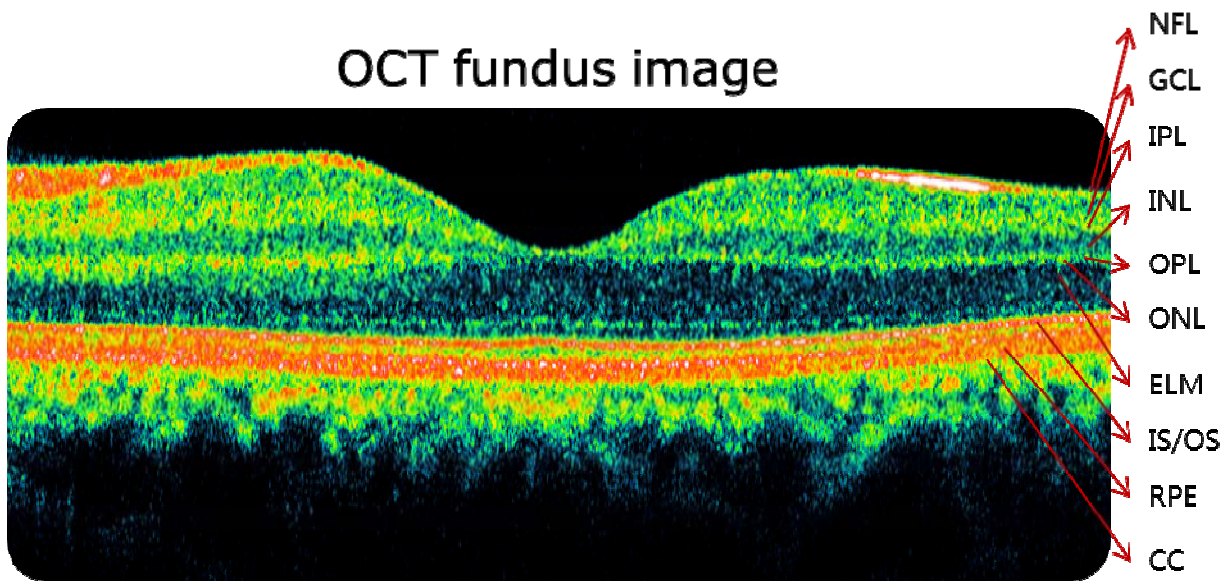




Functions :

- ◆ Macular scan
- ◆ Glaucoma analysis
- ◆ Anterior segment scan
- ◆ Database storage

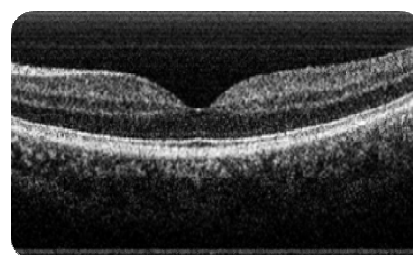
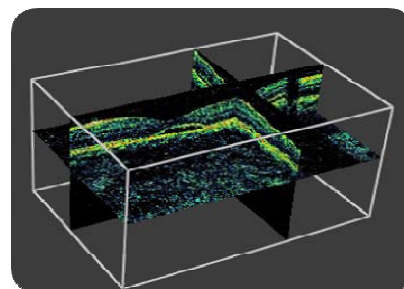
OCT fundus image



# Details

## OCT Parameters

|                    |                              |
|--------------------|------------------------------|
| Type               | Frequency Domain             |
| Source             | 840 nm SLD                   |
| Optical Power      | 800 $\mu$ w (Self-protected) |
| Scanning Modes     | Fundus, Anterior Segment     |
| Scanning Depth     | 2 mm                         |
| Axial Resolution   | 8 $\mu$ m                    |
| Lateral Resolution | 15 $\mu$ m                   |
| A-scan Speed       | 30,000 A-scans/s             |
| B-scan Speed       | 60 frames/s & 10 frames/s    |



## Computer & Display

|                  |                                                 |
|------------------|-------------------------------------------------|
| OCT Image Color  | Standard OCT Color, Grayscale and Reverse Color |
| Display Modes    | 2D, 3D                                          |
| 3D OCT Functions | Rotation, Slicing                               |
| C-scan Display   | C-scan Cross-section Analysis                   |
| Hard Disk        | 500 GB                                          |
| CPU              | 2 Cores, 2 .5GHz                                |
| Memory           | 4 GB                                            |
| Graphics Card    | 1 GB                                            |
| Monitor          | 22-inch                                         |

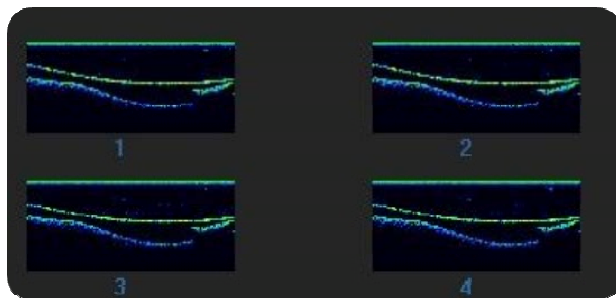
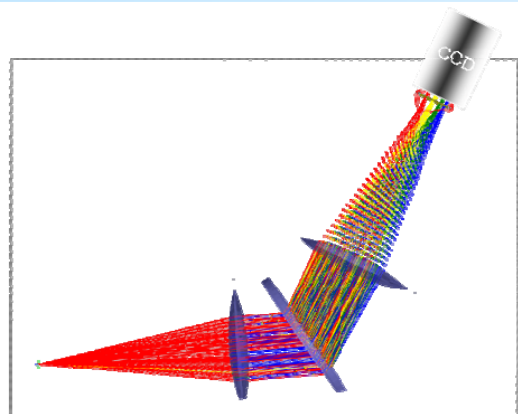
## Other Specifications

|                     |                     |
|---------------------|---------------------|
| Automatic Functions | Fundus, OCT Imaging |
| Chinrest            | Motor-driven        |
| Communication       | RS-232              |
| Dimensions          | 470x356x432         |
| Weight              | 10 kg               |
| Power Consumption   | 80 W                |
| Power Supply        | 220 V-50 Hz AC      |

# Features

**1.**

Frequency domain OCT technique can extract coherent signals from different depth at the same time. No depth-scanning device is needed.

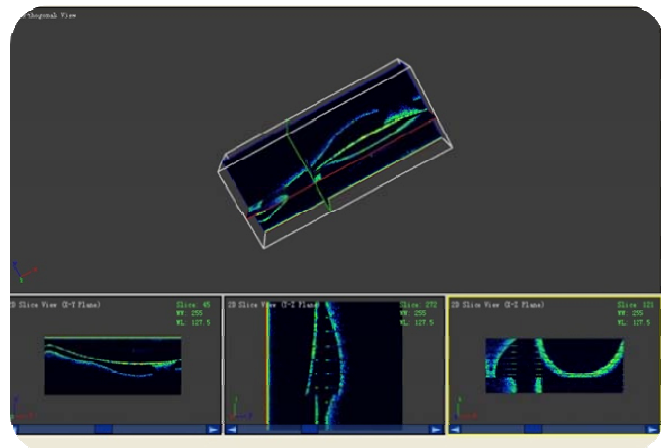


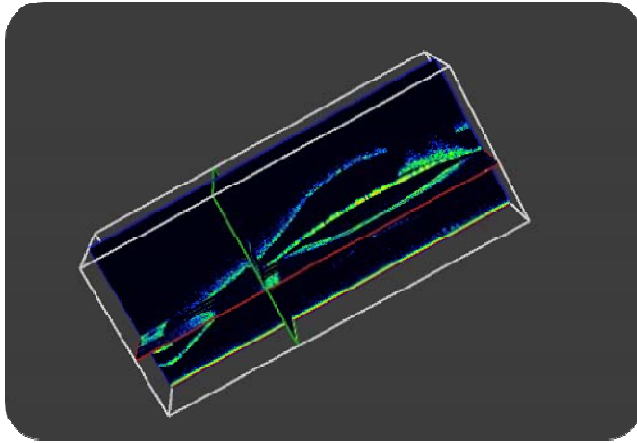
**2.**

The diagnosis of anterior segment and posterior segment of the eye can be achieved by the same device. Very cost-effective.

**3.**

Pioneered fast 3D OCT system to obtain three-dimensional images of fundus, for accurate measurement of lump volume, tracking and monitoring the patient's condition.

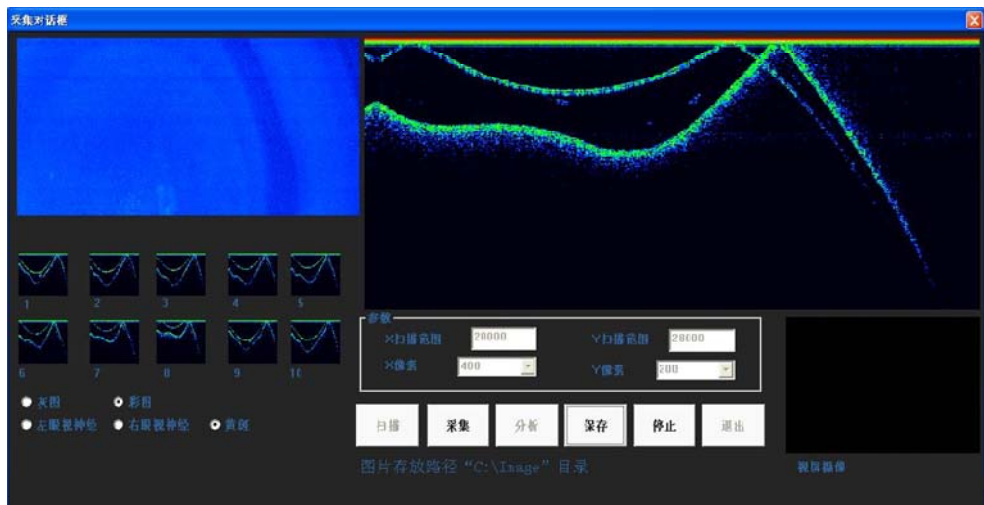




4.

Unique denoising mode can effectively improve the signal-to-noise ratio of low coherent optical signal, therefore improves resolution and contrast.

## VC ++ based multifunctional systems analysis and graphics management software



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