



Technical Data

Tomographic Imaging	
Purpose	Cross-sectional imaging of the retina
Signal Type	Photon scattered from tissues
Light Source	Super luminescent LED , 840nm
Optical Power	≤0.75mW(on the cornea)
Axial Resolution	6μm in tissue
Lateral Resolution	15μm in tissue
Scanner	Galvanometer mirror
Scan Modes	Line, concentric rings, cross, six-lines, repeat, arbitrary-angle
Scan Rate	20,000 A-scans per second
Acquisition Time	40 pictures per second
Scan Depth	2mm in tissue

Fundus Imaging	
Purpose	Fundus observation and real-time registration
Signal Type	CCD imaging
Field Angle	29°×23°
Viewing Method	19-inch color flat panel display
Illuminator	LED
Internal Fixation	LED dot matrix
External Fixation	Adjustable blinking LED
Minimum Pupil Diameter	2mm

Technical specifications are subject to change.

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Spectral Domain OCT

Posterior Segment OCT OSE-2000



Company Profile

Sonostar Technologies Co., Limited is a fast-growing company specialized in medical devices development. Being the first OCT instrument manufacturer in China, Moptim released the world's first OCT instrument for noninvasive qualitative assessment of pearl and the first ophthalmologic OCT instrument in China. Our principle products include ophthalmologic posterior segment OCT, anterior segment OCT, pearl inspection OCT, research type OCT, etc..

Sonostar's technologies and main personnel come from our partner — Tsinghua University. Sonostar also establishes long-term cooperation with South China Normal University, Shenzhen Ophthalmologic Hospital and some of other universities and medical clinics. The company has been nationally recognized as leader of this field in China.

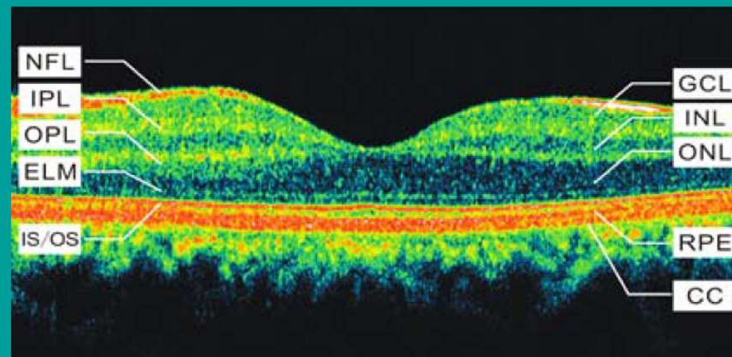
In faith of "High quality and sincerity, mutual benefit by cooperation", Sonostar always strives to develop innovative medical technologies and provide high quality products and services to everyone in need.



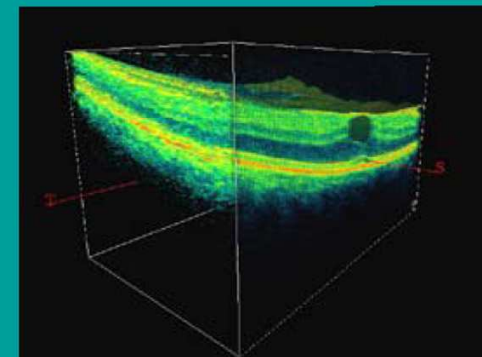
OSE-2000 (Optical Section for Eyes) Spectral Domain OCT

The new clinical standard OCT platform for comprehensive retina and glaucoma management.

Spectral Domain OCT OSE-2000: interpretation of retinal layers



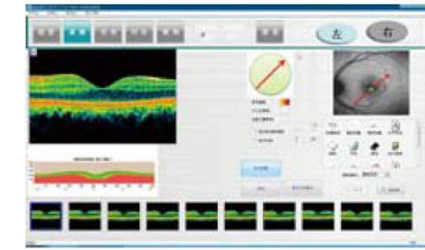
NFL: Nerve fiber layer	GCL: Ganglion cell layer
IPL: Inner plexiform layer	INL: Inner nuclear layer
OPL: Outer plexiform layer	ONL: Outer nuclear layer
ELM: External limiting membrane	RPE: Retinal pigment epithelium + Bruch's membrane
IS/OS: Interface between PR inner & outer segment	CC: Choroidal Capillary



3D imaging

Applications

- Noncontact, noninvasive optical sectioning of posterior segment of eyeball.
- Illustrative and accurate diagnosis of retinal diseases.
- Early diagnosis of retinal damage caused by glaucoma.
- Surgery guide and post-surgery inspection.

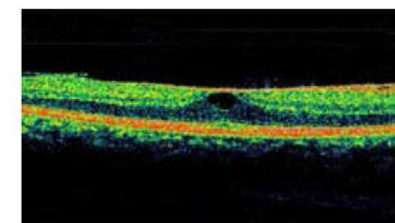


Software interface

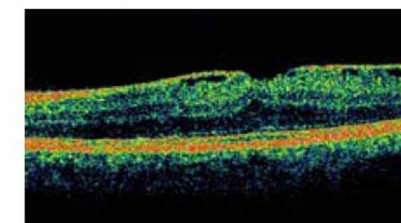
Advantages

- **High speed, high definition imaging.** Spectral domain OCT creates higher-speed, higher resolution scans of the retina compared to the Time domain OCT. Improved resolution allows us to see vitreo-retinal features in greater detail. Higher scanning speed can be used to either shorten examination time or to significantly increase the extent and detail of the retinal images.
- **Multiple scanning modes.** With increased speed, many more scans can be acquired to create three-dimensional images of retinal structures.
- **Life-time free software upgrades.** Software is developed by ourselves, so software will be upgraded for free until we stop improving OSE-2000.
- **Language option: Chinese, English.**

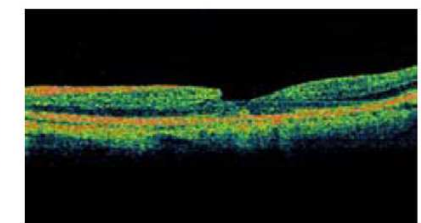
Typical cases



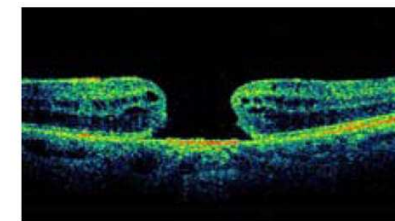
Pseudomacula-hole caused by ERM



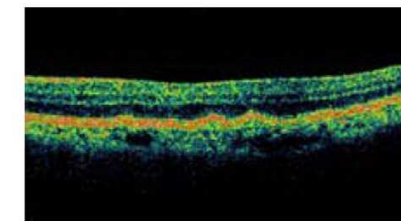
Epiretinal Membrane



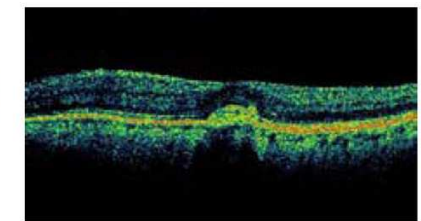
Lamellar Hole



Macular Hole



Drusen



Choroidal Neovascularization