



OSE-2000

Optical Coherence Tomography



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OPHTHALMOLOGY / ENT



OSE-2000

Optical Coherence Tomograph

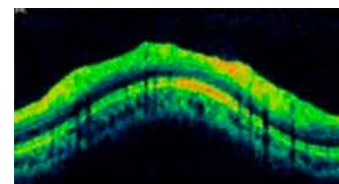


Cod. OSE-2000

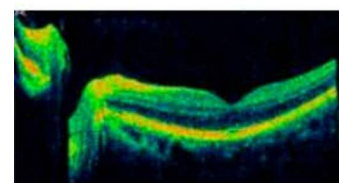
Standard Version - OCT device, posterior segment

Cod. OSE-2000AS

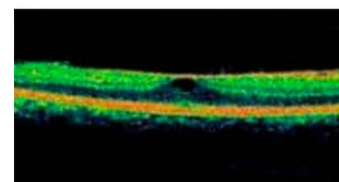
Optional Version - OCT device, posterior and anterior segments



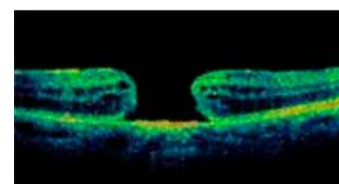
Peripapillary circular OCT image



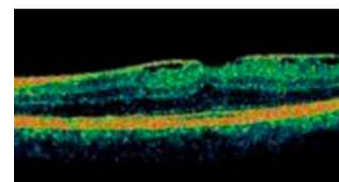
Fovea and Optic disk
OCT image (10mm scan)



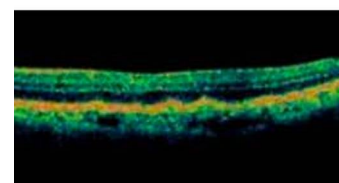
Pseudomacula-hole caused by ERM



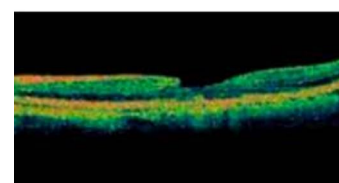
Macular hole



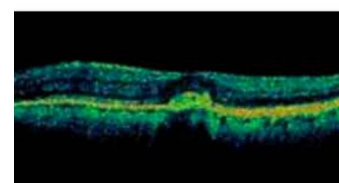
Epiretinal Membrane



Drusen



Lamellar Hole



Choroidal Neovascularization

Optical coherence tomography (OCT) is a new, non-invasive, non-contact, transpupillary imaging technology which can image retinal structures in vivo with a resolution of 5-8 microns. Cross-sectional images of the retina are produced using the optical backscattering of light in a fashion analogous to B-Scan ultrasonography and confocal microscopy.

Cross-sectional images of the retina, is revolutionizing the early detection and treatment and greatly enhanced our quality of patient care.

• Applications

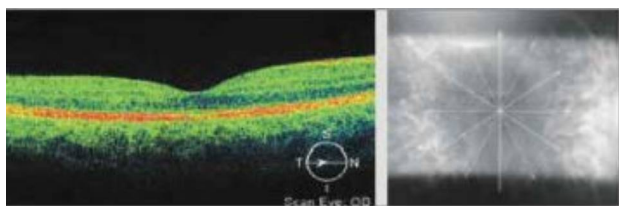
In vivo, cross-sectional images and quantitative analysis of retinal fractures to optimize the diagnosis and monitoring of retinal disease and for enhanced pre-and post-therapy assessment.

High-quality images and accurate measures RNFL and the optic nerve head to aid in the detection and management of glaucoma. Cross-sectional images are valuable for clinical evaluation of macular holes, macular edema and other retinal pathologies. Precise location of pathology to expand diagnostic confidence and therapeutic precision.

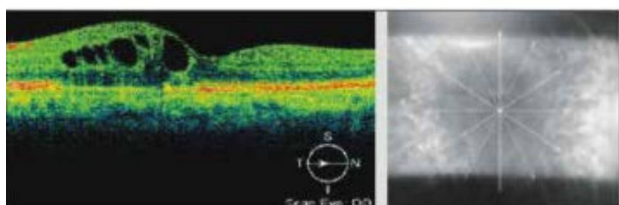
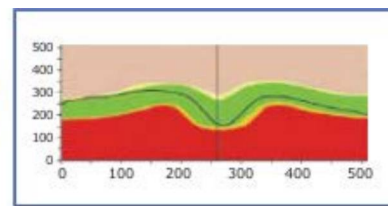
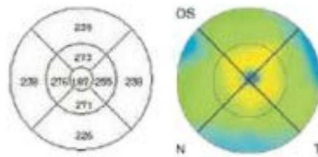


• Normal and abnormal image contrast image

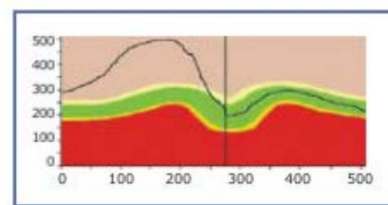
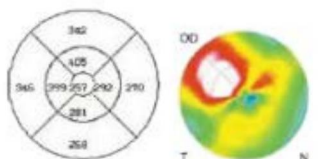
Lesions image by image with normal OCT images, the regional thickness values? Topographic maps, diagrams and other multi-thickness contrast, thereby comprehensive judgment of disease.



Normal image

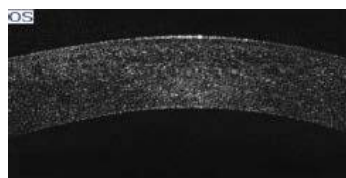


Cystoid molecular edema

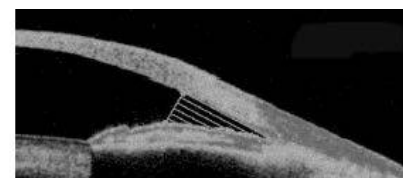


• High performance, low price

Modular design increases flexibility, reusability and maintainability. We can provide personalized design according to the customers needs. With the powerful software, OSE-2000 has clear, easy-to-use interface and multi-language support.



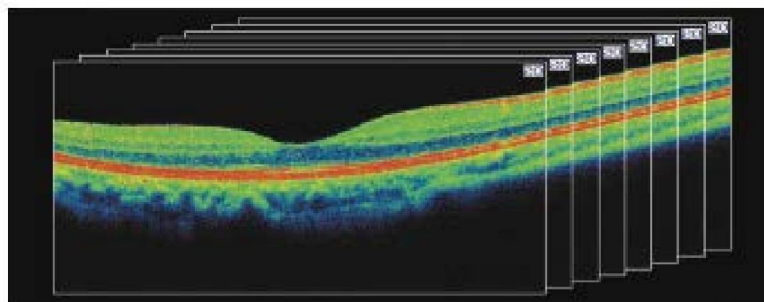
Corneal scan



Angle scanning

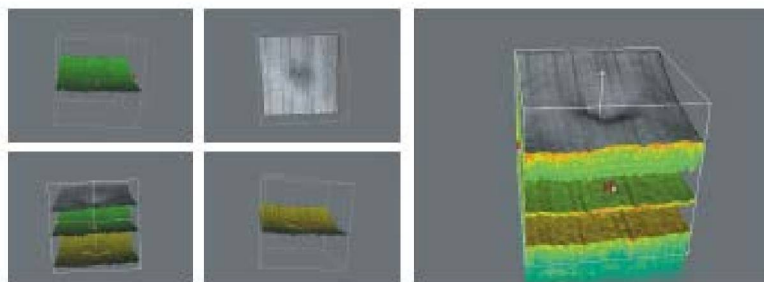
• Anterior segment analysis template

Anterior segment with optional version OSE-2000AS, able to observe and analyze the anterior segment.



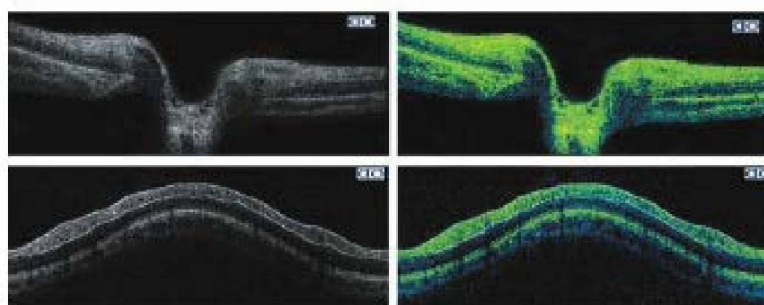
• HD images

High average sum processing, image is more accurate and clear



• Retinal precise stratification

6mm x 6mm range of 3D stereoscopic graphics macula, the overall structure of the optic disc, tridimensional display morphological structure. Clear stratification observation.



Technical Features



| Cod. | Description |
|-------------------|--|
| OSE-2000 | OCT device, posterior segment |
| OSE-2000AS | OCT device, posterior and anterior segments |

| Tomographic imaging | |
|---------------------------|---|
| Purpose | Cross-sectional imaging of the retina |
| Signal type | Super luminescent LED, 840nm |
| Light source | ≤0.75mW (Cornea) |
| Optical power | 5µm in tissue |
| Axial resolution | 15µm in tissue |
| Lateral resolution | Galvanometer mirror |
| Scan mode | Posterior Segment: line scan, circular scan, cross hair scan, X-line scan, raster lines scan, radial lines scan, area scan Anterior Segment: line scan, radial lines scan (optional version OSE-2000AS only) |
| Scan range | 29,000 A-scans per second |
| Acquisition time | 58 pictures per second |
| Scan depth | 2µm in tissue |

| Fundus imaging | |
|-------------------------------|----------------------------------|
| Signal type | CCD imaging |
| Field angle | 29°x23° |
| Viewing method | 22-inch color flat panel display |
| Illuminator | LED |
| Internal fixation | LED dot matrix |
| External fixation | Adjustable blinking LED |
| Minimum pupil diameter | 2mm |

