Velite C1000

Wide Field SLO OCT

WRMT

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Worldwide Representation Platform

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Scenarios of Application

Eye optometry center

Physical examination center

Hospital,Community clinic

Subjects of Application

High speed scanning, Ultra high definition imaging

86.000 A-scans/s, monocular scan in 2 seconds, high-definition tomography imaging, clear segmentation facilitates diagnosis

Automatic segmentation measurement for choroid membrane

Accurate detection for myopia development intervention

Coprehensive functions, to meet a varriety of needs

OCT functions such as fundus imaging, anterior segment imaging, SLO fundus imaging, eye tracking and imaging of cloudy liquids are equiped

SLO fundus ultra fast retina tracker

Real time eye tracking for eye movement compensation

Autofocus

Automatic focusing for diopter compensation & image optimization

Integrated anterior mode

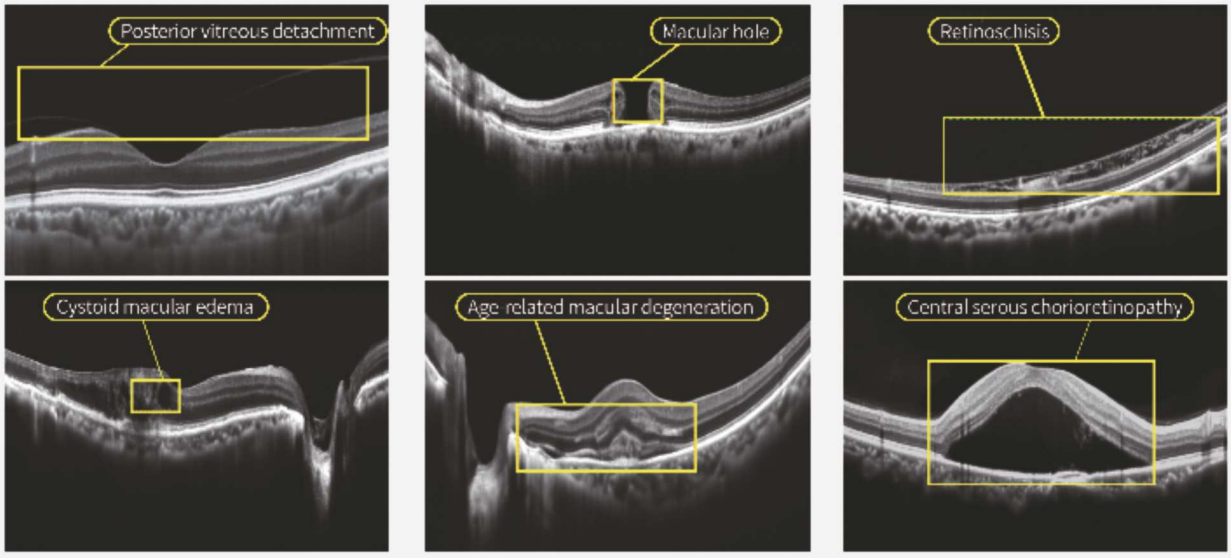
No external lens needed for anterior imaging

AI diagnosis, one-click enabling optometry detection / eye disease screening

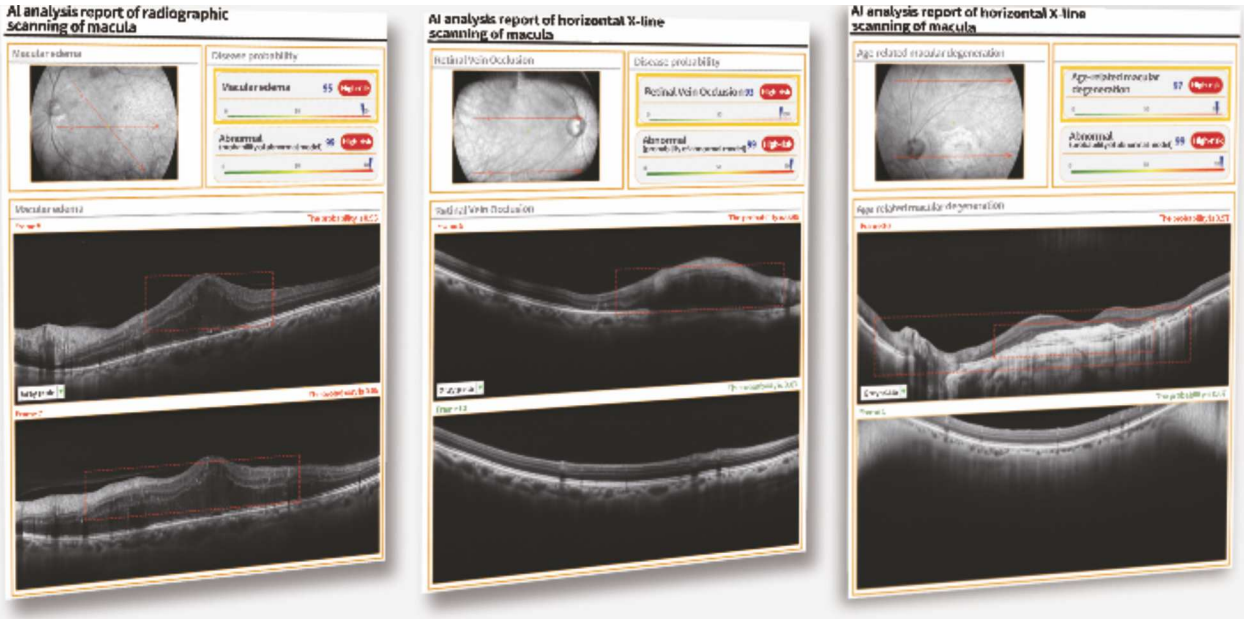
WRMT OCT provides artificial intelligence disease screening systems.The systems can facilitate rapid fundus screening at the basic optometry center and improve diagnostic efficiency and accuracy.The systems can issue the diagnosis report with one button, with the accuracy of up to 97%. The systems are suitable for primary healthcare and optometry industries. At the same the AI Diagnosis Cloud Platform is built to realize data linkage

97% /Accuracy

Data source: From over 10,000 people real scene test



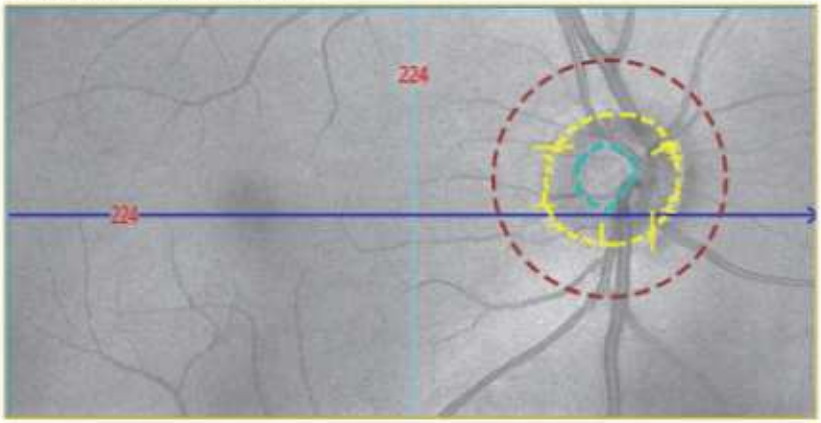
Automatic identification and annotation of fundus anomalies & Precise localization using AI big data model

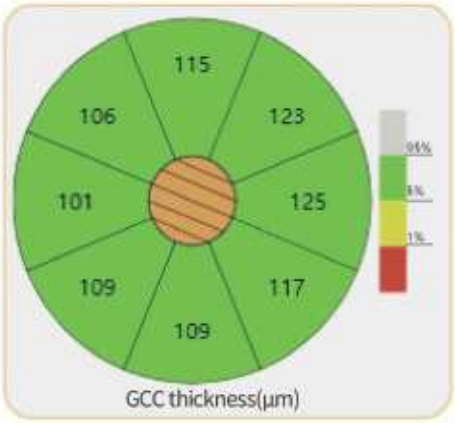


Automatic generation of AI diagnostic analysis reports · Improvement in the efficiency and accuracy of ophthalmic screening

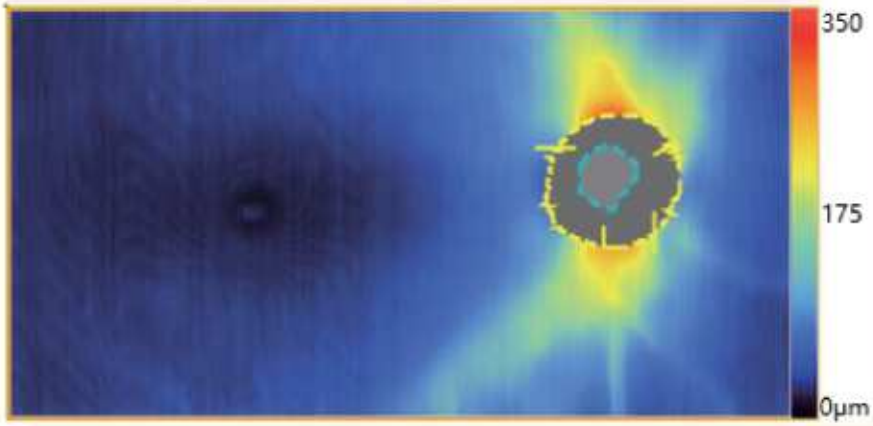
Glaucoma detection pattern

Thickness value(ILM-RPE):339μm

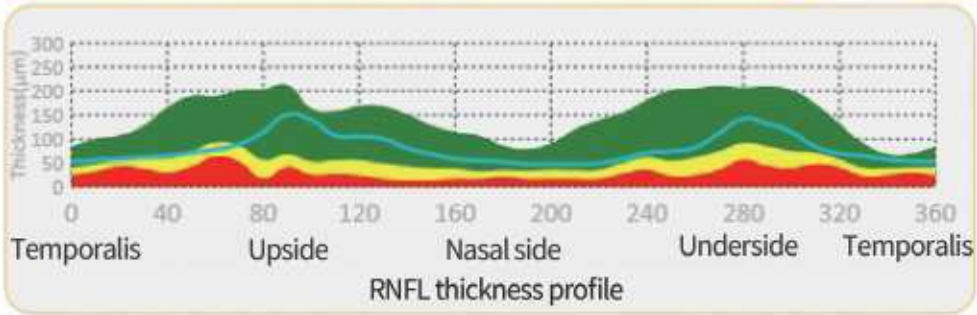




GCC thickness(μm)



ILM-RPE thickness(μm)



RNFL thickness profile

	OD
Average thickness of optic nerve layer	80.00μm
Area of the optic disc edge	2.45mm²
Optic disc Area	3.04mm²
The ratio of the diameter of the optic cup to the diameter of the optic disc in horizontal line	0.45
The ratio of the diameter of the optic cup to the diameter of the optic disc in vertical line	0.49
Optic cup and optic disc volume	0.113mm³

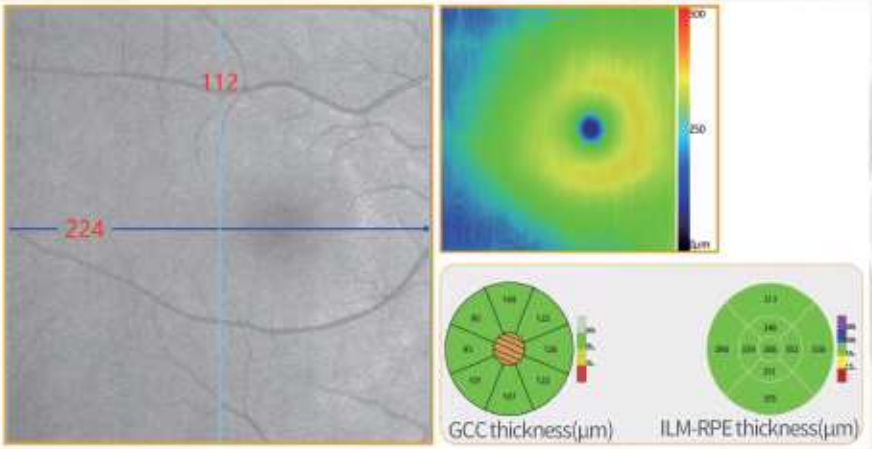
Comprehensive analysis report on macular disc in glaucoma

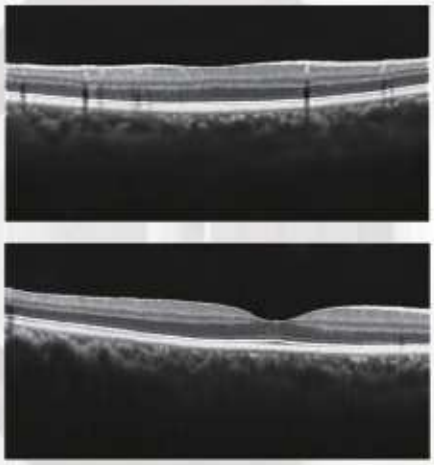
Macula detection mode

3D visualization, automatic thickness analysis

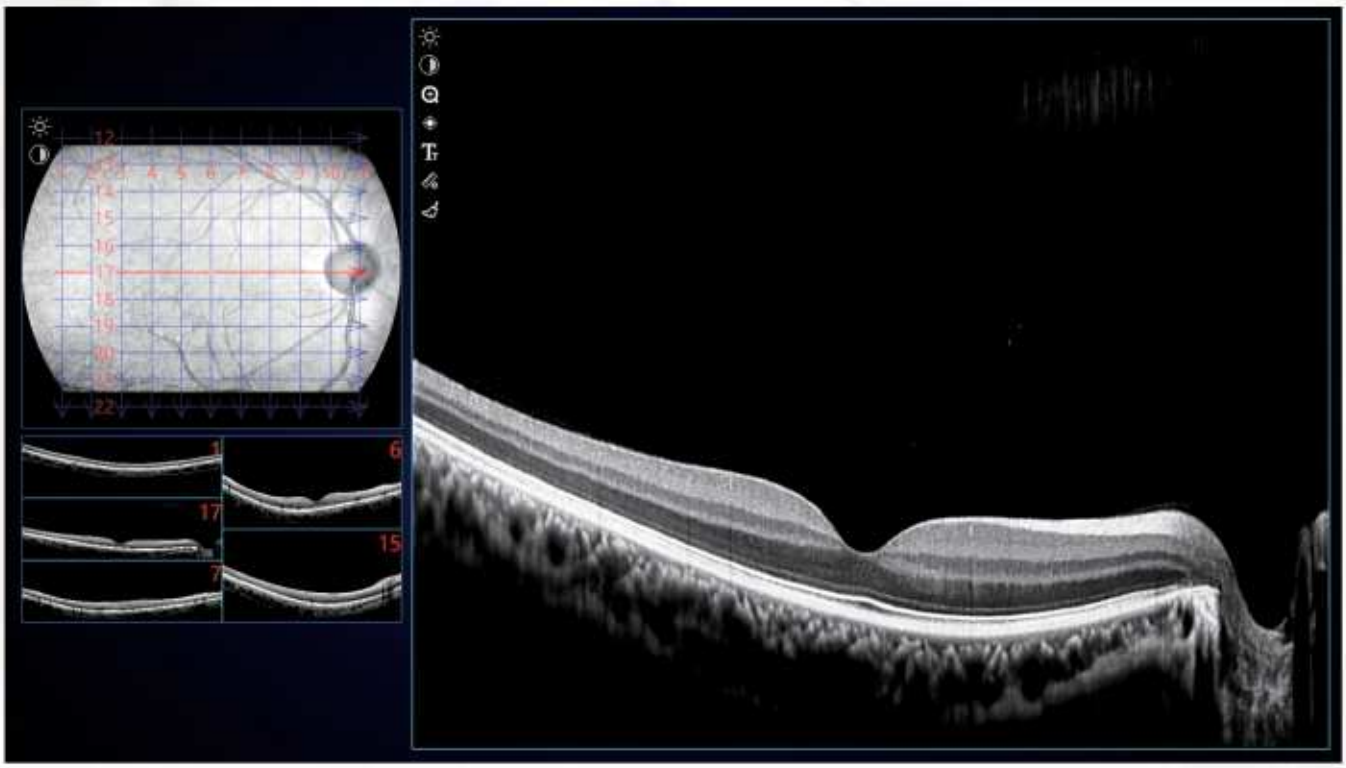
Clear stratification , without any loss of detail

Multi-line scanning mode more comprehensive scope





3D scanning analysis of macula



Macular grille scanning analysis

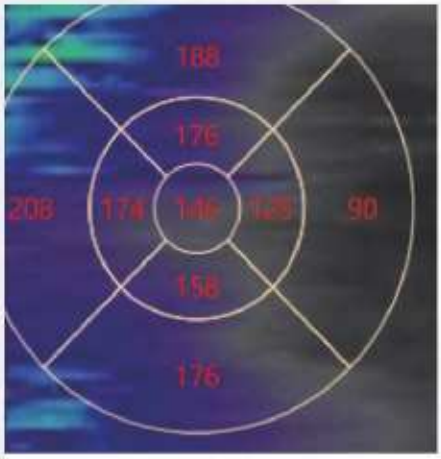
Automatic stratification measurement of choroid membrane (Myopia developmental intervention precision testing)

Automatic thickness measurement, no manual layering required

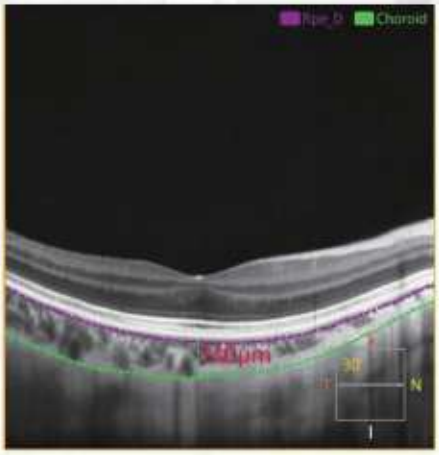
OCT functions include multiple scanning modes such as line scanning, grid scanning, and three-dimensional scanning. Macular fovea choroidal thickness (SFCT), choroidal subarachnoid thickness map and mean choroidal thickness in the macular region can be measured.

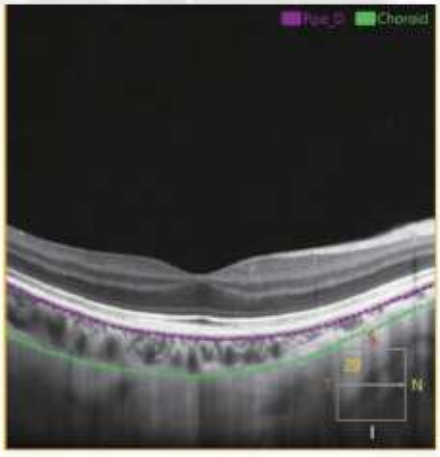
Thickness monitoring before and after myopia prevention and control

Choroidal thickness is directly related to myopia. The higher the diopter, the thinner the choroidal thickness. Measuring choroidal thickness through OCT can effectively evaluate the therapeutic effect of myopia prevention and control measures. Such as evaluating the effect of corneal reshaping lenses, functional lenses, low concentration atropine, and feed light meter on changing choroidal thickness.



Choroidal thickness(μm)





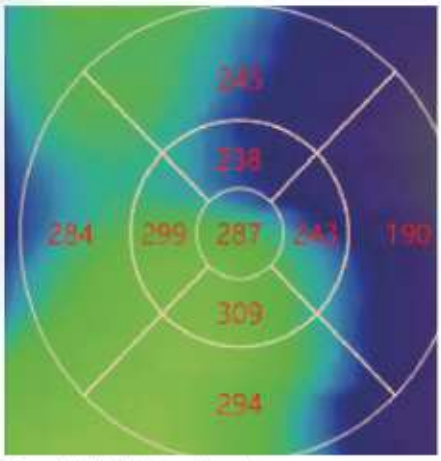
Macular fovea choroidal thickness:140μm

Report of high myopia choroid

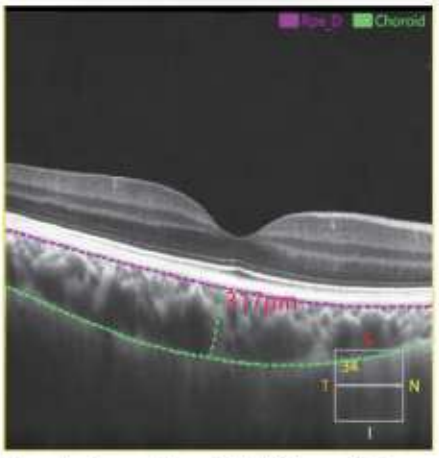
Autofocus, less inspection time and easier operation

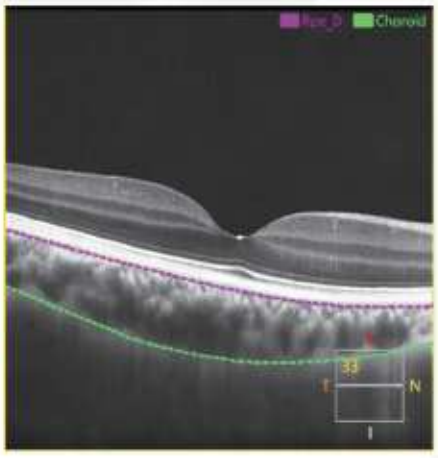
AI layering, automatic calculation of choroidal thickness

Automatic presentation of choroidal thickness and distribution map



Choroidal thickness(μm)





Macular fovea choroidal thickness:317μm

Choroidal detection interface for non myopic individuals

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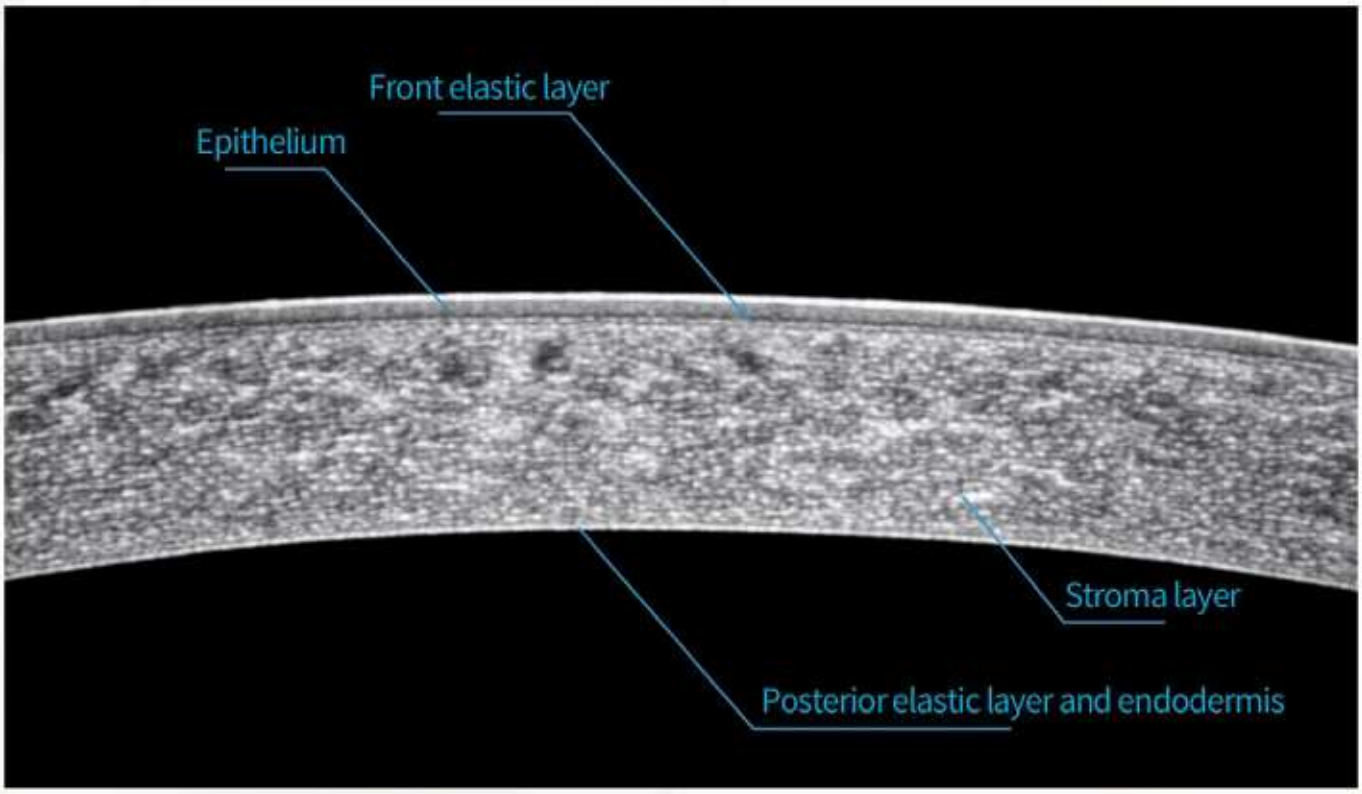
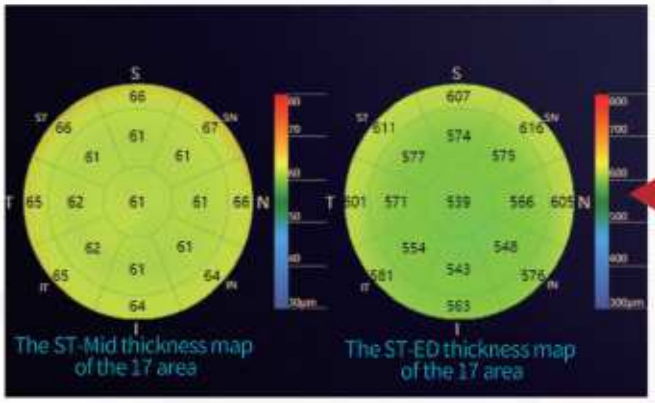
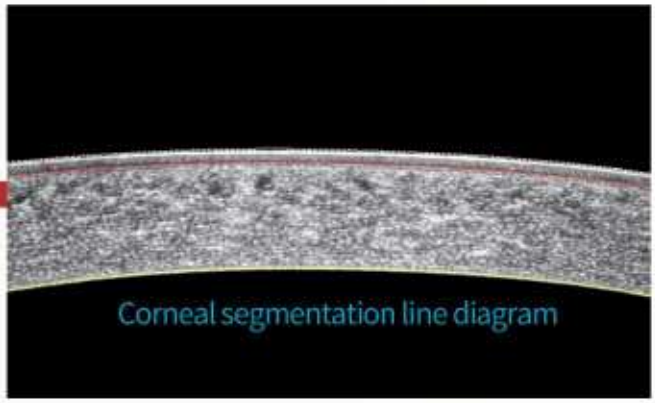
Anterior segment measurement

Automatic measurement of corneal thickness， quantification of anterior chamber angle



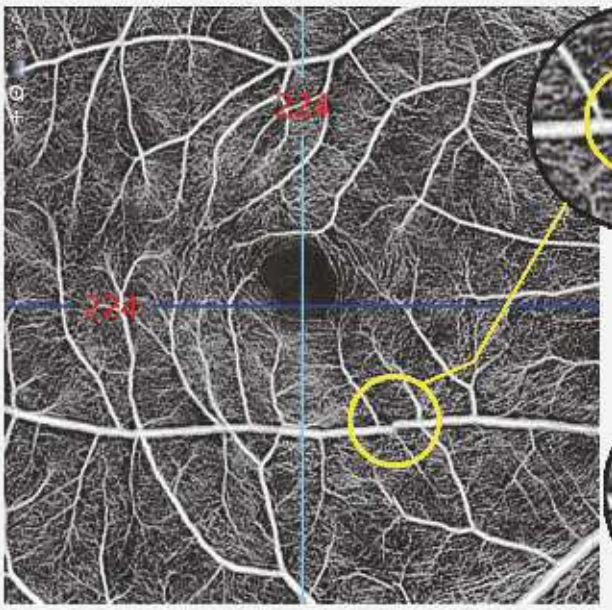
Layered diagram of corneal structure



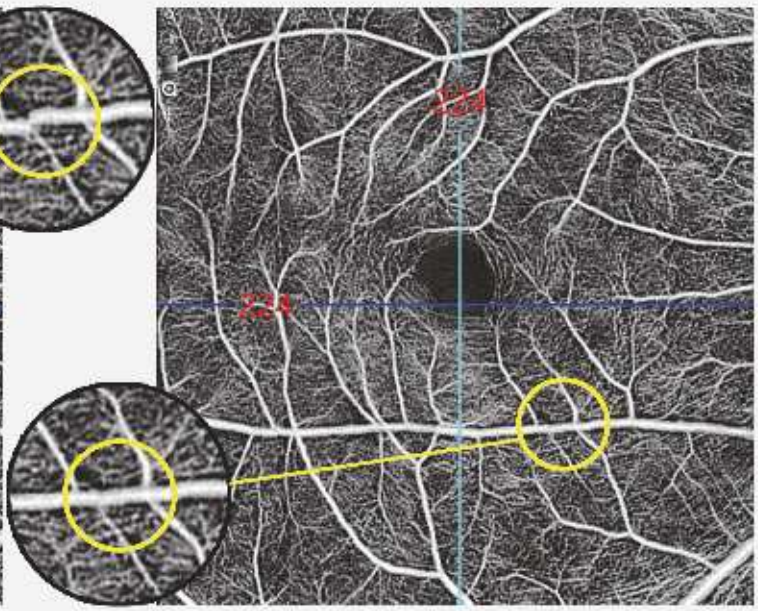


Corneal scan

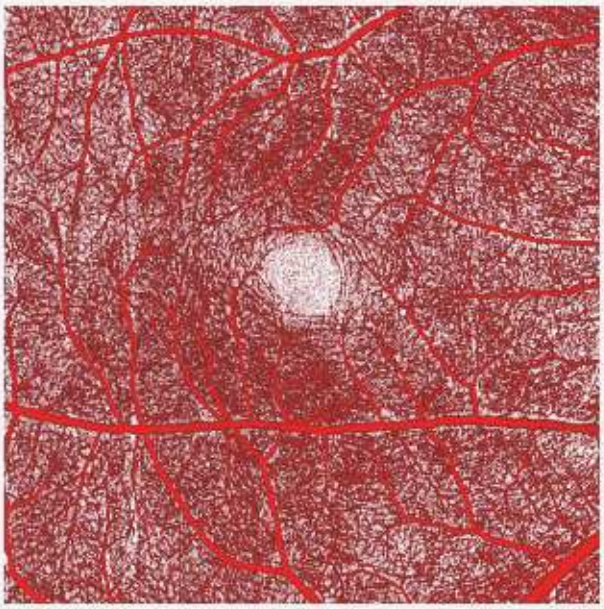
High resolution OCT angiography



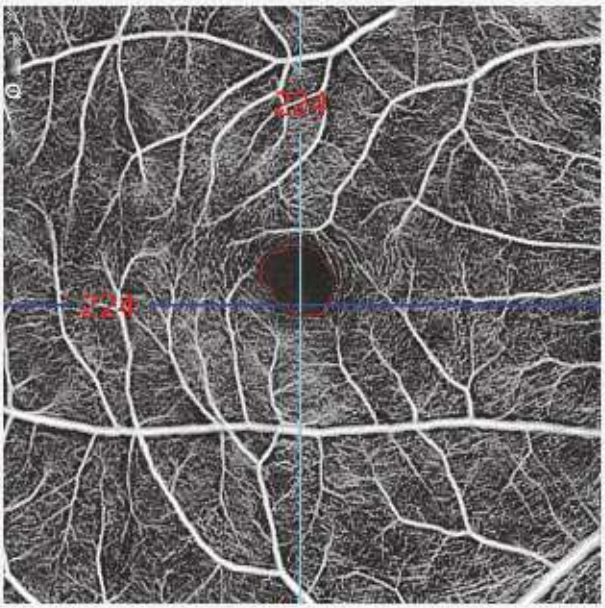
General vessel tracking



Intelligent vessel tracking



Identifying microcirculation

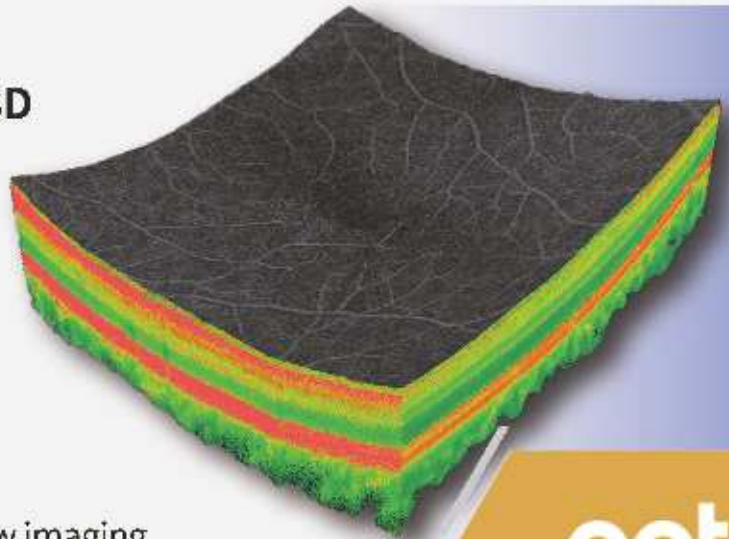


Foveal avascular zone analysis

Visualization of 3D fundus imaging

Rich details between layers

High-resolution fundus imaging



3D fundus blood flow imaging

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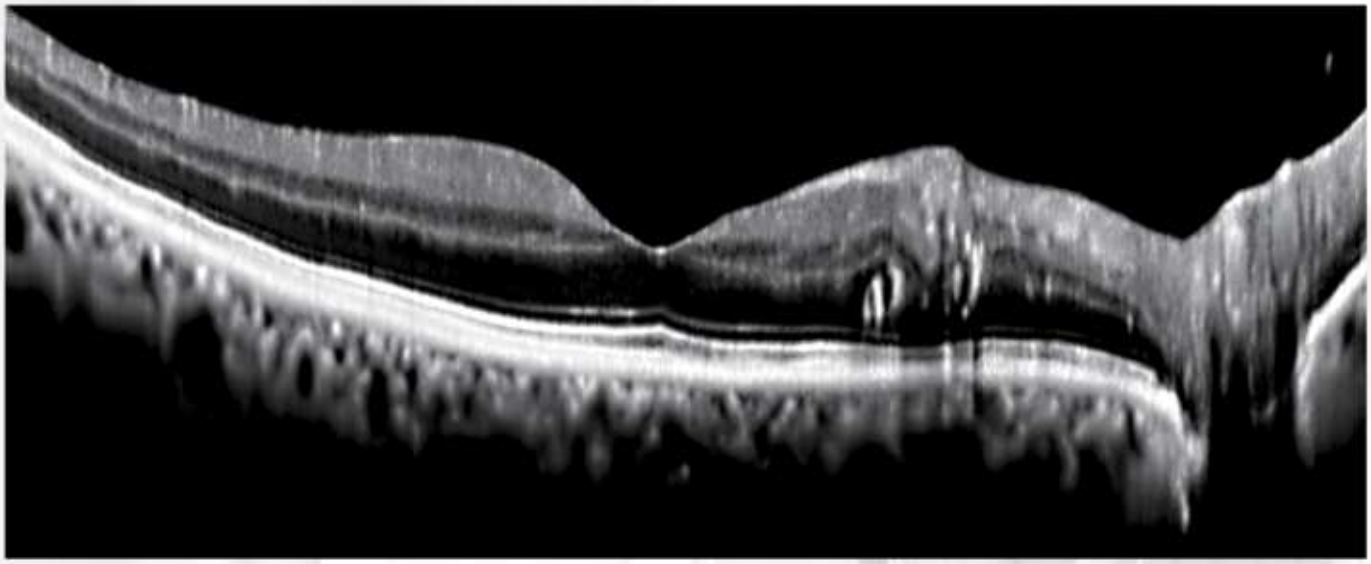
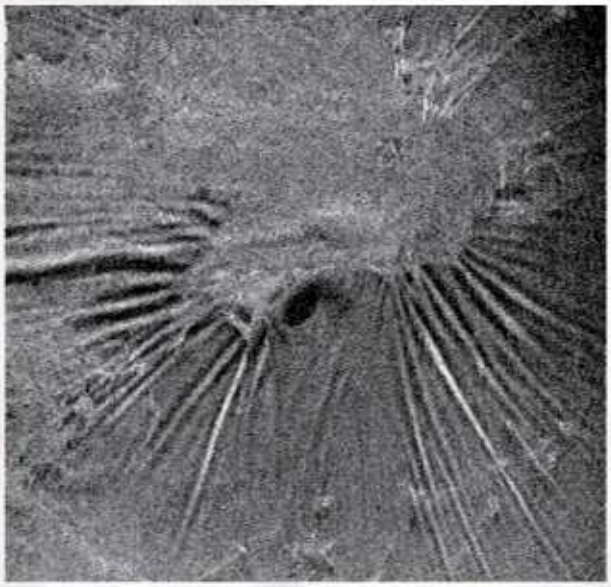
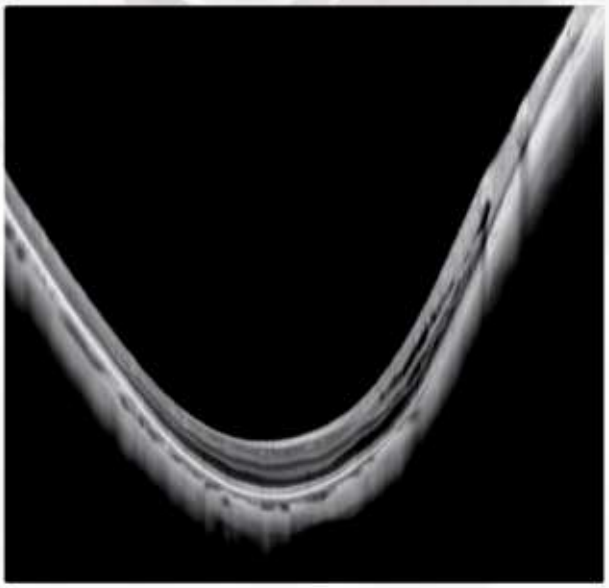
Representative case diagrams



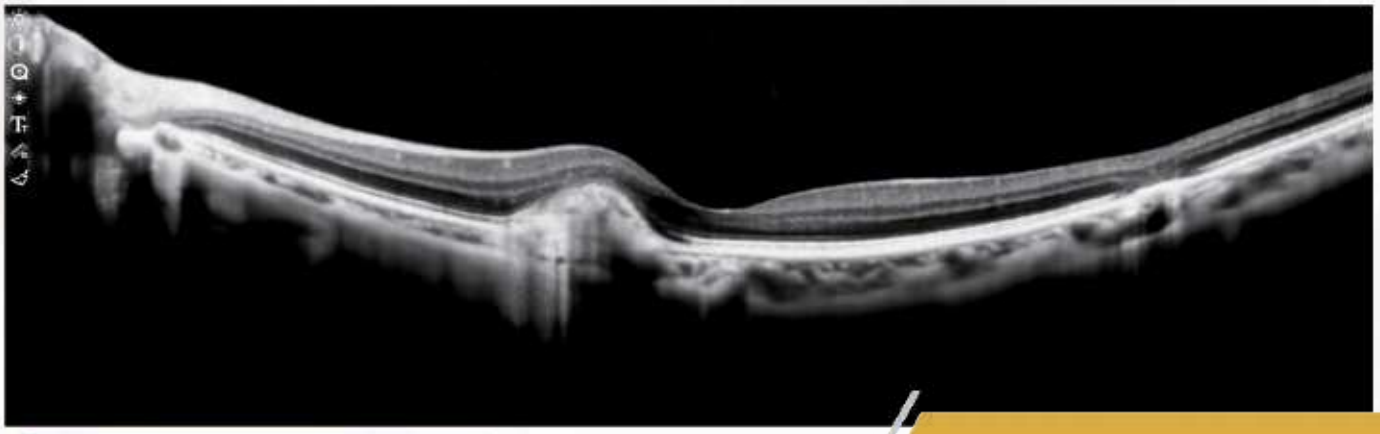
Diabetic Retinopathy(DR)



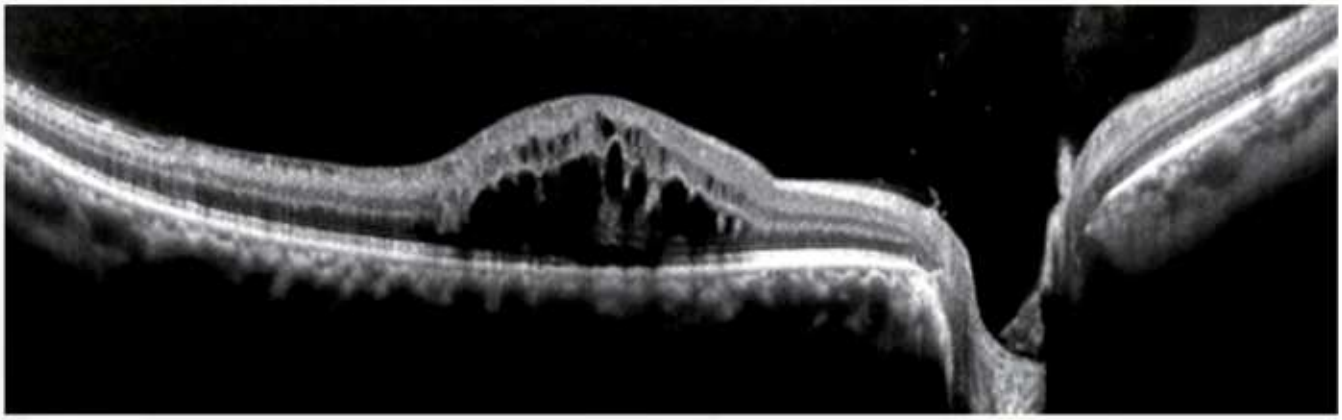
Epiretinal Membrane(ERM)



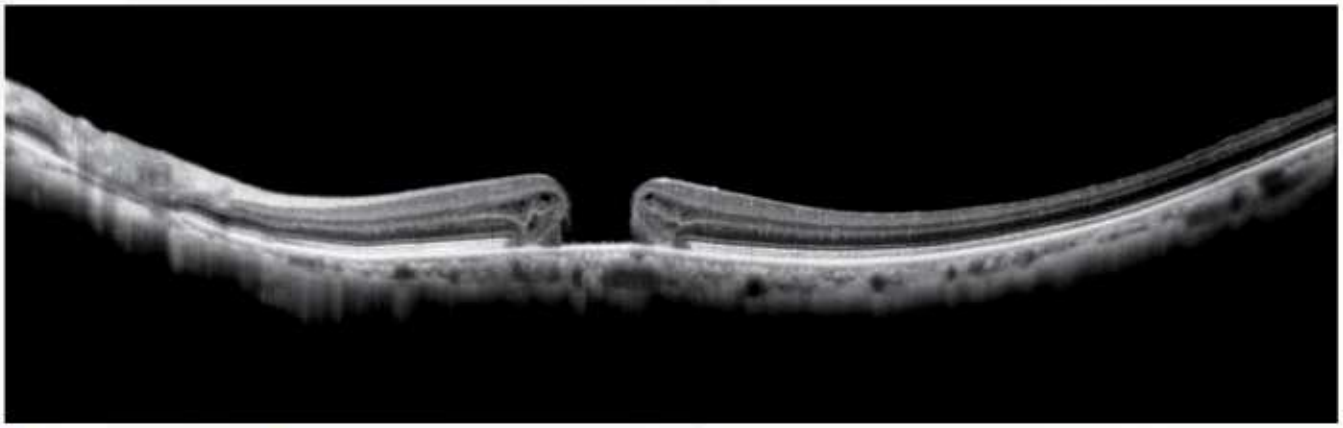
Retinaoschisis



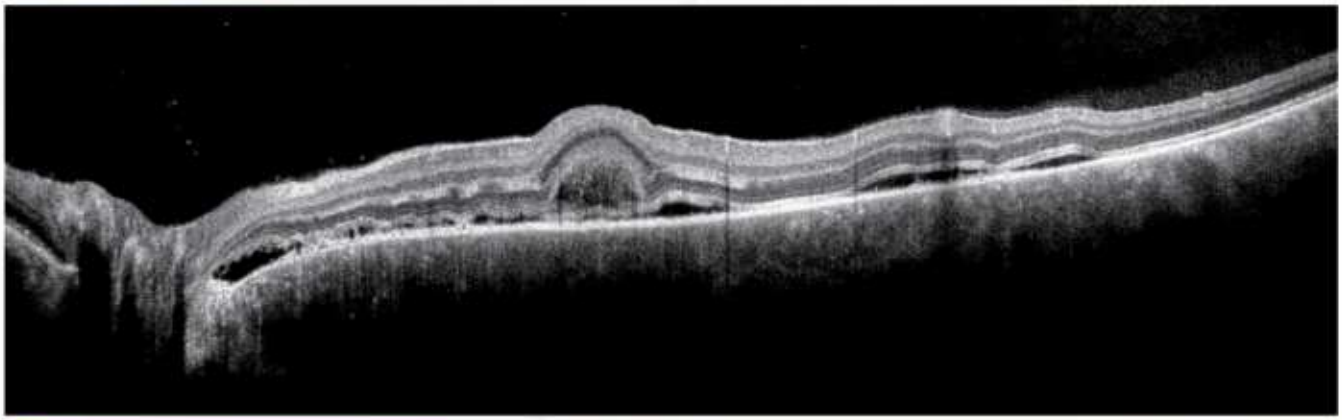
Choroidal Neovascularization(CNV)



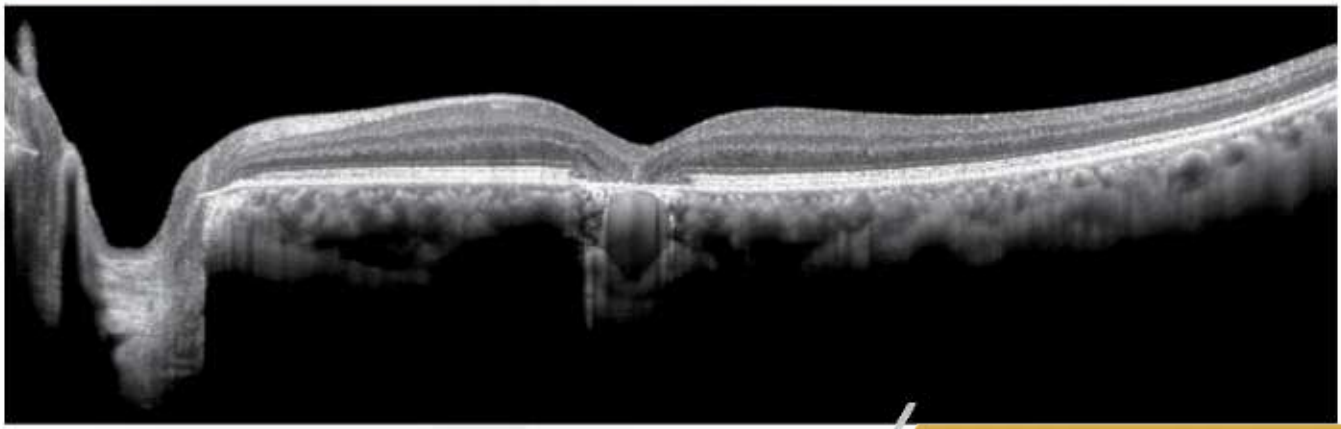
Branch retinal vein obstruction



Macular Hole(MH)



Central serous chorioretinopathy



Age-related macular degeneration(AMD)

Technical Specifications

OCT IMAGING

- Methodology: Spectral domain OCT
- Optical source: Super luminescent diode (SLD), 840 nm
- Scan speed: 86,000 A-scans/s
- Axial resolution (optical): 5 microns
- Transverse resolution (optical): 15 microns
- A-scan depth: 3.5μm minimum
- Diopter range: - 20 to + 20 diopters
- Scan patterns: Macular: Line scan, Raster scan, Grid scan,
  3D scan (6 mm x 6 mm and 9 mm x 9 mm),
  8-line radial scan, Disc: 3D scan (6 mm x 6 mm)

Anterior: Line scan, 32-line radial scan, 3D cornea scan (9 mm x 9 mm)

FUNDUS IMAGING

- Methodology: Line scanning laser ophthalmoscopy (LSLO)
- Minimum pupil diameter: 3.0 mm
- Field of view: 36 degrees horizontal - 30 degrees vertical

OCTA MODULE (OPTIONAL)

- Scanning volume/area
- 3mm x 3mm 320 x 320 A-scans
  6mm x 6mm 448 x 448 A-scans

Segmentation options

- Retina, Vitreous Retina Interface(VRI), Superficial, Deep,
  Avascular, Choriocapillaris, Choroid, Density, Density superficial,
  Density Deep, Custom
- Quantitative analysis
- Density analysis, FAZ analysis

ELECTRICAL AND PHYSICAL

- Weight: 35 kg
- Dimensions: 615 mm (L) x 346 mm (W) x 548 mm (H)
- Source voltage: AC 100 - 240 V
- Frequency: 50 Hz - 60 Hz
- Power input: 10 VA

COMPANY INFO

Opto Hellas is one of the largest suppliers of medical instruments, implants and consumables in Europe and is constantly expanding to new and challenging markets. Our customer base which we refer to as 'the Opto family' consist of ophthalmologists, orthopedics, dermatologists and medical institutes. We aim to serve those that seek for superior customer service and innovative products, to better their working environment and day to day operations.

Opto Hellas is constantly evolving with the help of technology and the rapid growth of international medical markets, but we never forget our path that led us to where we are today. We focus on the needs of our customers and constantly try to support them whenever they are in need and wherever they are located.

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