



# EOCT 1

## Artificial Intelligence OCT

### AI Empowered Eye CT Detection

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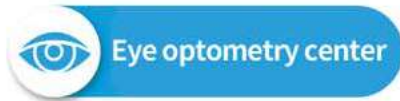
# Eyevis EOCT 1

## Artificial Intelligence OCT

Product leading AI screening technology Empowering eye CT detection



# Scenarios of Application



# Subjects of Application



## High speed scanning, Ultra high definition imaging

86000 times/s, monocular scan in 2 seconds, high-definition tomography imaging, clear stratification facilitates diagnosis

## Automatic stratification measurement for choroid membrane

Accurate detection for myopia development intervention

## Comprehensive functions, to meet a variety of needs

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

## AI eye disease screening system, to locate the abnormal images

Automatically identify common fundus lesions and conduct risk assessment

## Cloud data archiving for information linkage

Cloud data aggregation with multiple terminals, efficient information linkage, instant transmission and reading, and high-speed information exchange

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

Eyevis 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 time, the AI Diagnosis Cloud Platform is built to realize data linkage

**97%** /Accuracy

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

## AI analysis report



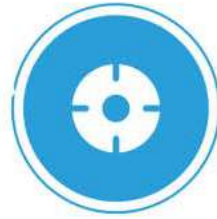
8k/4k Full HD



Resolution is 5µm



Artificial Intelligence diagnosis

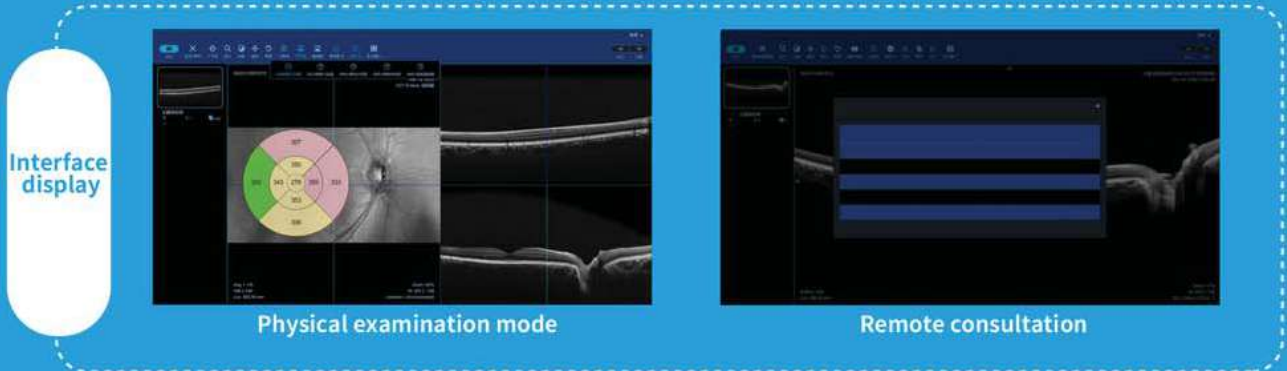
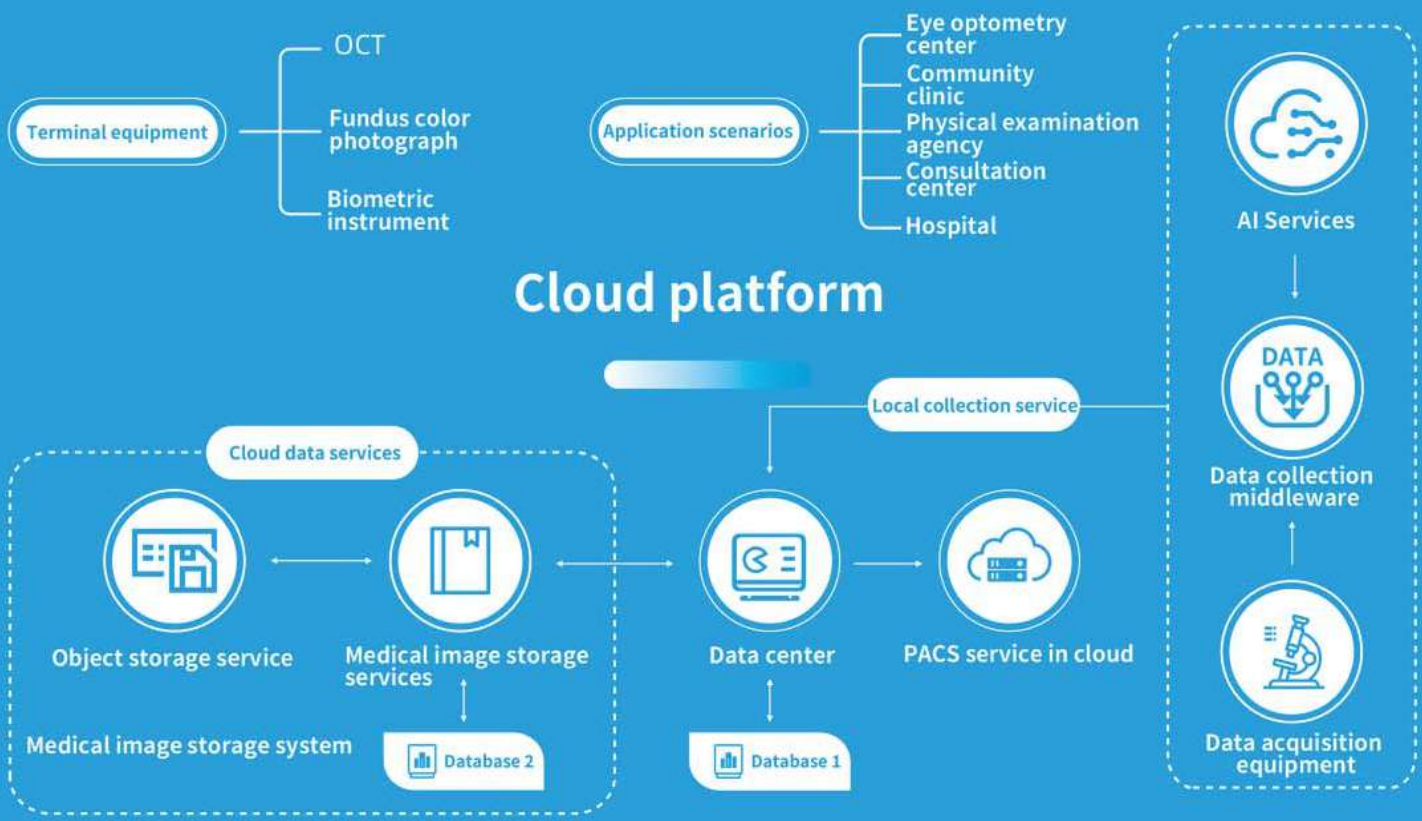
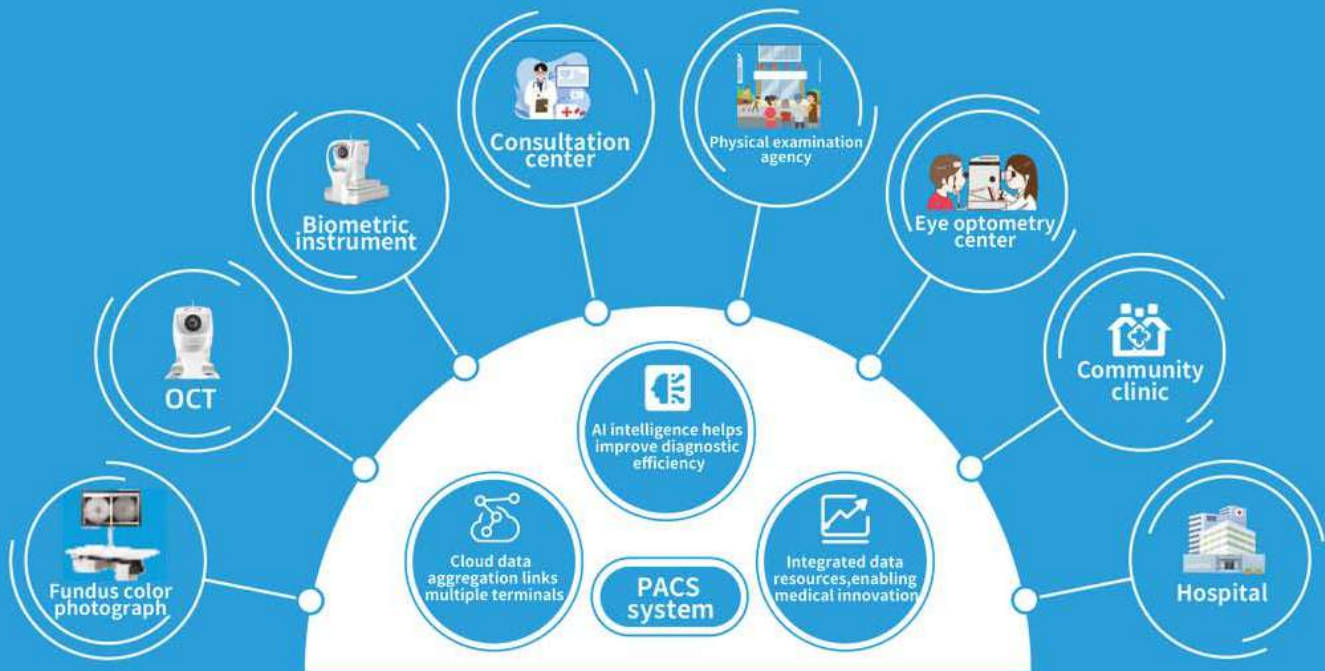


Eye tracking

## EOCT 1

Scanning speed	≥86000 A-Scan/S
Image quality	SD ; HD ; 8K/4K
SLO function	Yes
Eye tracking function	Yes

# —Leading the new era of OCT combined with AI—



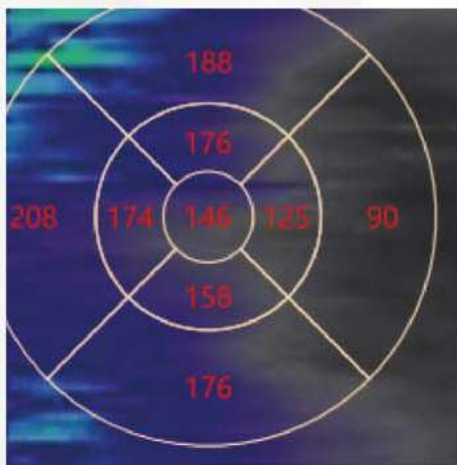
# Automatic stratification measurement of choroid membrane (Myopia developmental intervention precision testing)

Automatic thickness measurement, no manual layering required

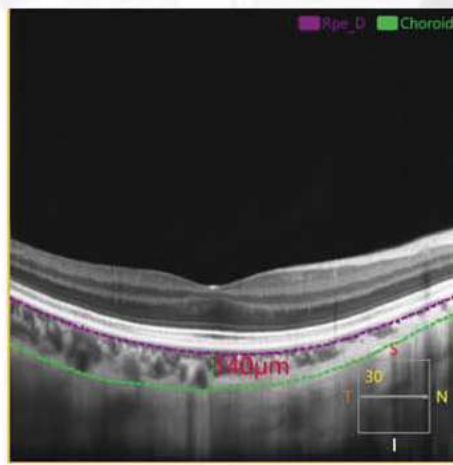
OCT functions include multiple scanning modes such as line scanning, grid scanning, and three-dimensional scanning. Macular fovea choroidal thickness (SFCT), choroidal subarachnoid thickness map and mean choroidal thickness in the macular region can be measured.

Thickness monitoring before and after myopia prevention and control

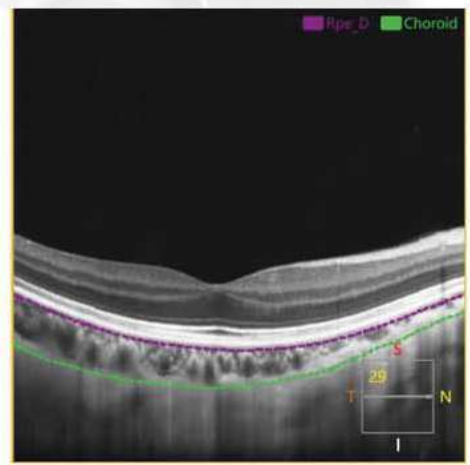
Choroidal thickness is directly related to myopia. The higher the diopter, the thinner the choroidal thickness. Measuring choroidal thickness through OCT can effectively evaluate the therapeutic effect of myopia prevention and control measures. Such as evaluating the effect of corneal reshaping lenses,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



Choroidal thickness( $\mu\text{m}$ )



Macular fovea choroidal thickness:140 $\mu\text{m}$

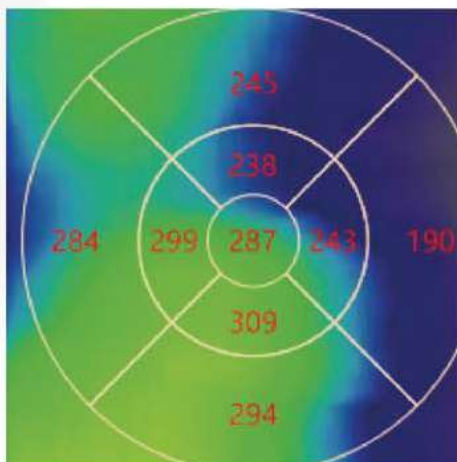


Report of high myopia choroid

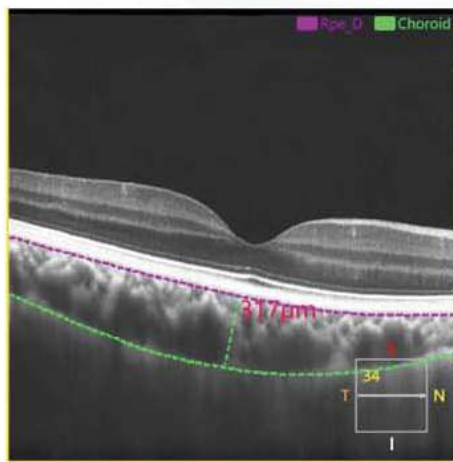
Autofocus, less inspection time and easier operation

AI layering, automatic calculation of choroidal thickness

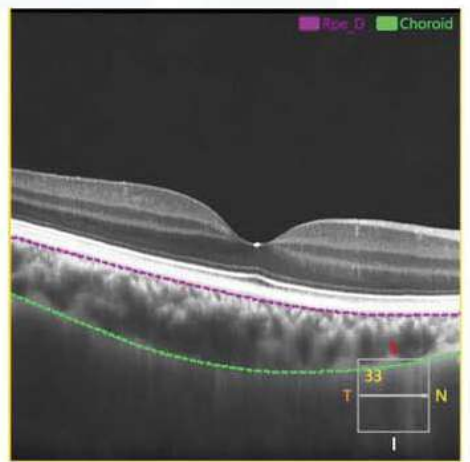
Automatic presentation of choroidal thickness and distribution map



Choroidal thickness( $\mu\text{m}$ )



Macular fovea choroidal thickness:317 $\mu\text{m}$



Choroidal detection interface for non myopic individuals

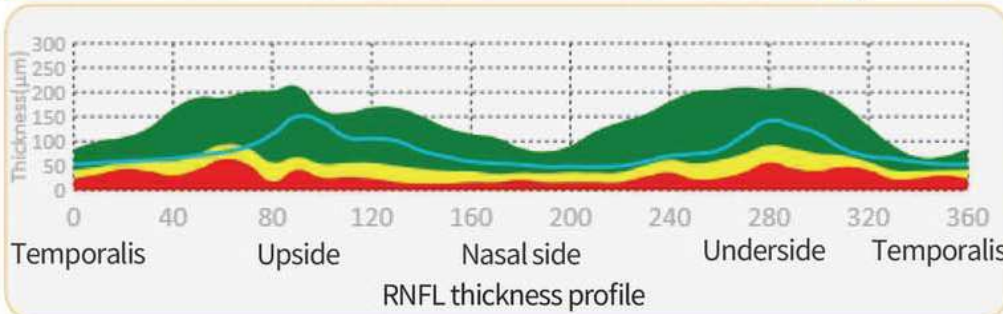
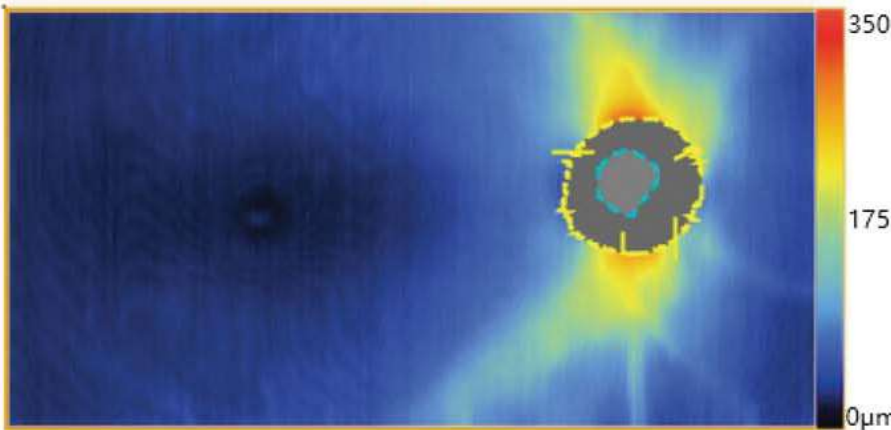
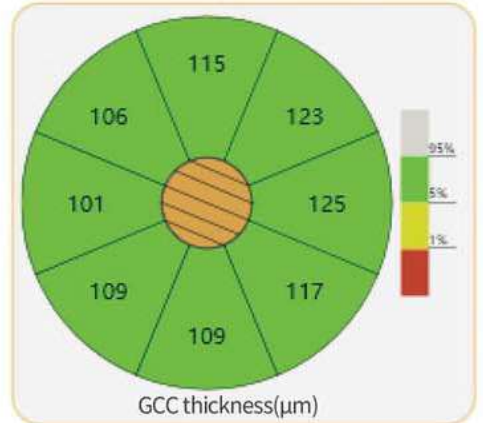
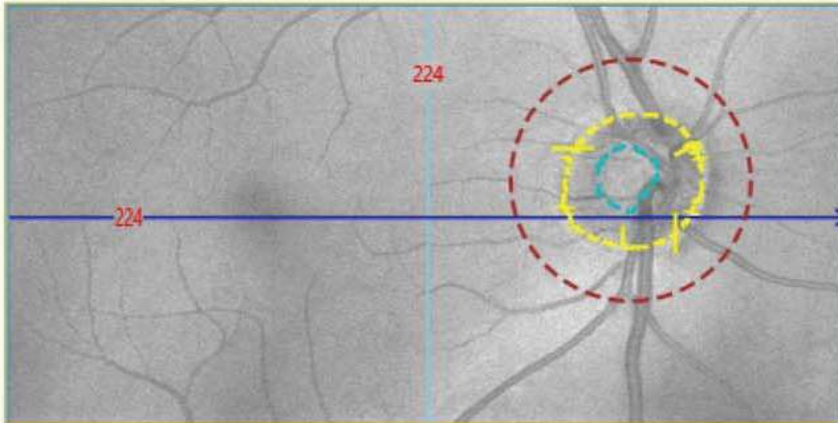
# Glaucoma detection pattern

Glaucoma analysis  
—optic disk RNFL

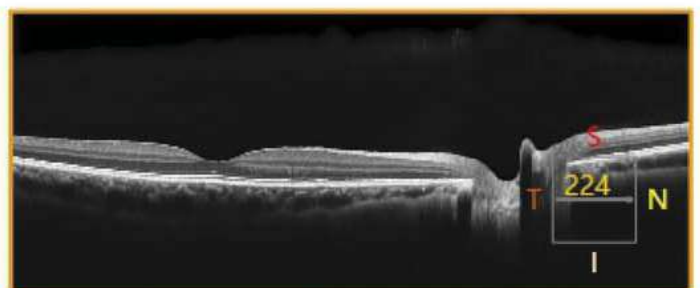
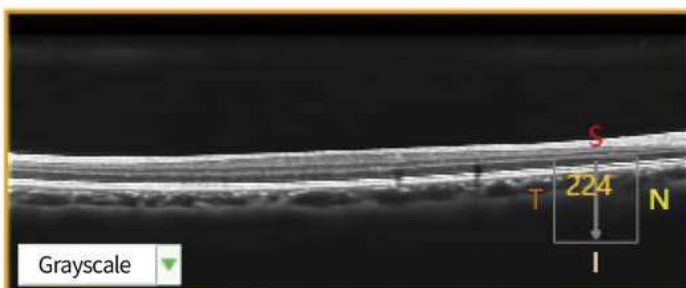
Single acquisition for 12mmx6mm  
Large range of fundus volume images

Thickness analysis and quantitative  
analysis can be performed on the  
macular area and optic disc area

Thickness value(ILM-RPE):339 $\mu$ m



	OD
Average thickness of optic nerve layer	80.00 $\mu$ m
Area of the optic disc edge	2.45mm <sup>2</sup>
Optic disc Area	3.04mm <sup>2</sup>
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	0.113mm <sup>3</sup>



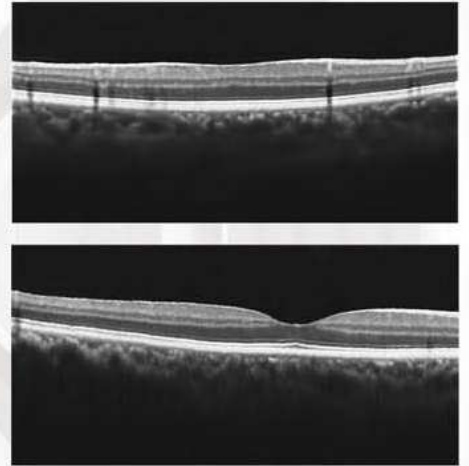
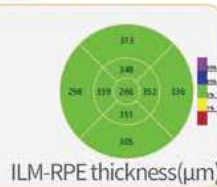
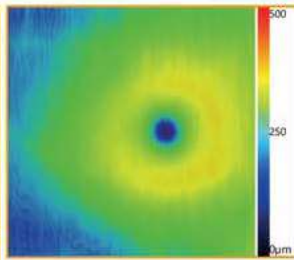
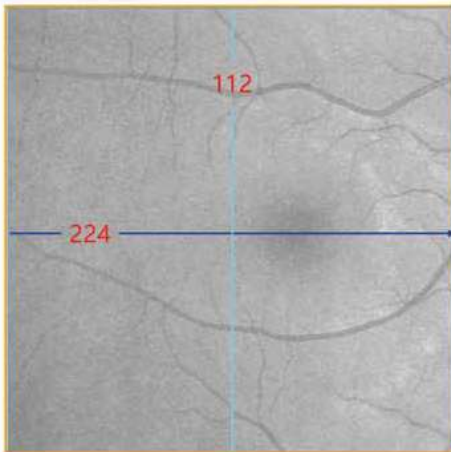
Comprehensive analysis report on macular disc in glaucoma

# Macular 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

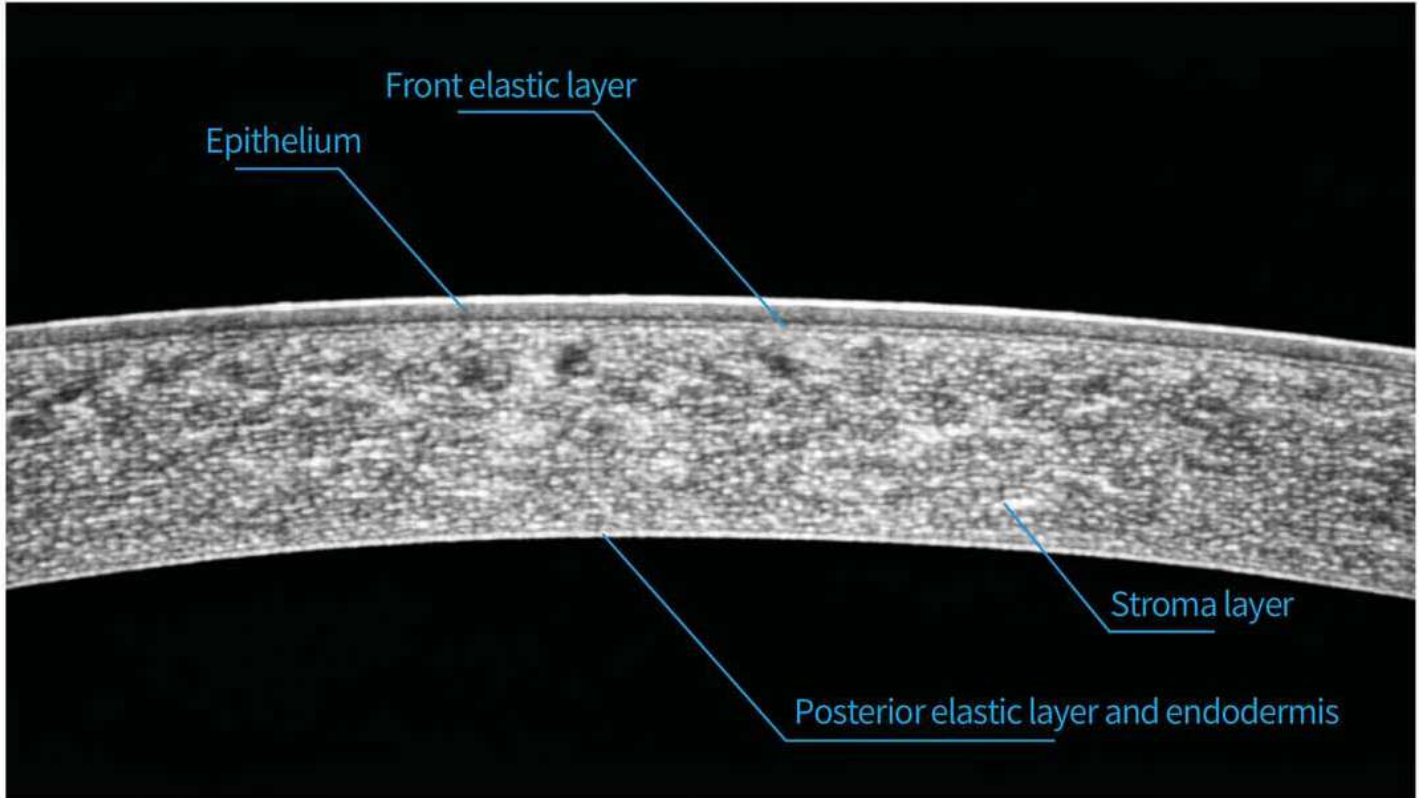


Macular grille scanning analysis

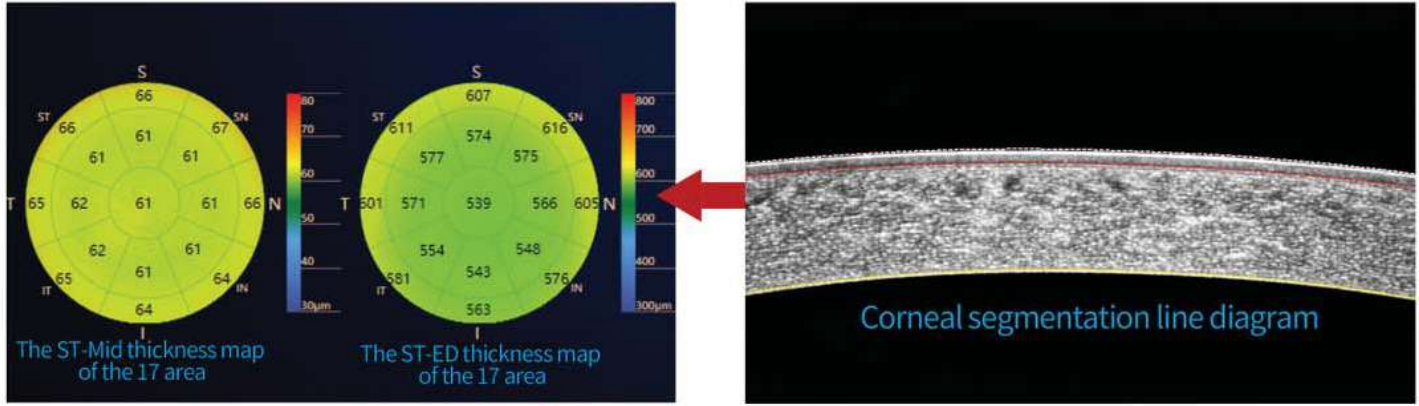


# Anterior segment measurement

Automatic measurement of corneal thickness, quantification of anterior chamber angle

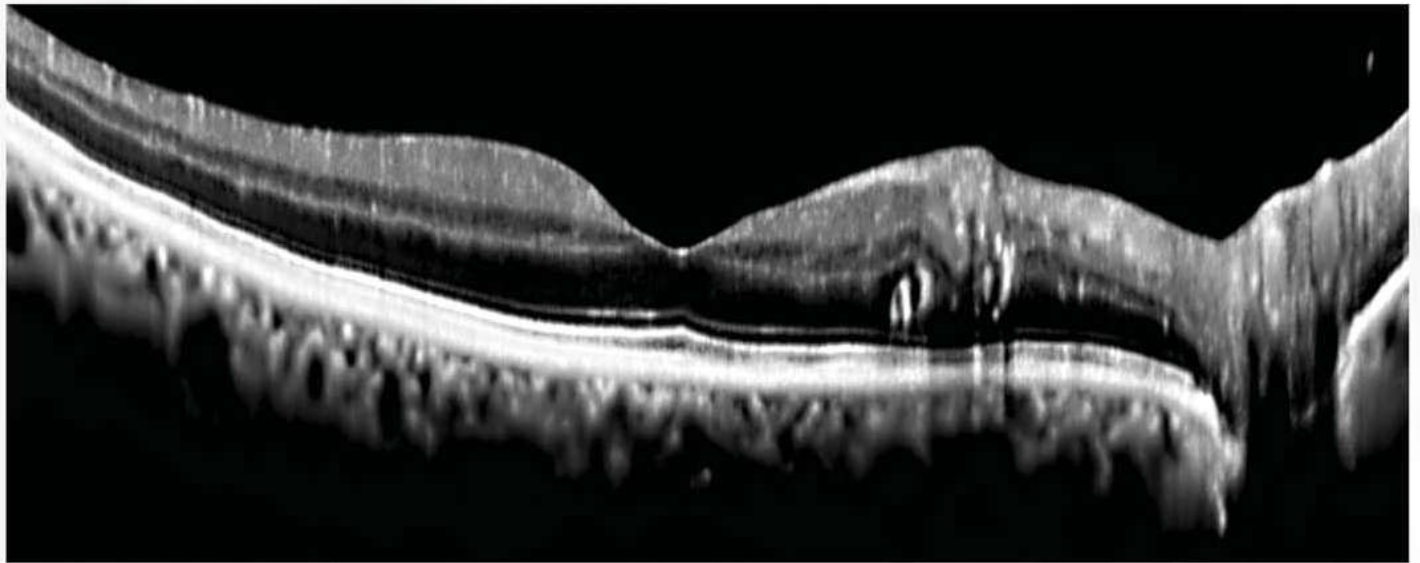


Layered diagram of corneal structure

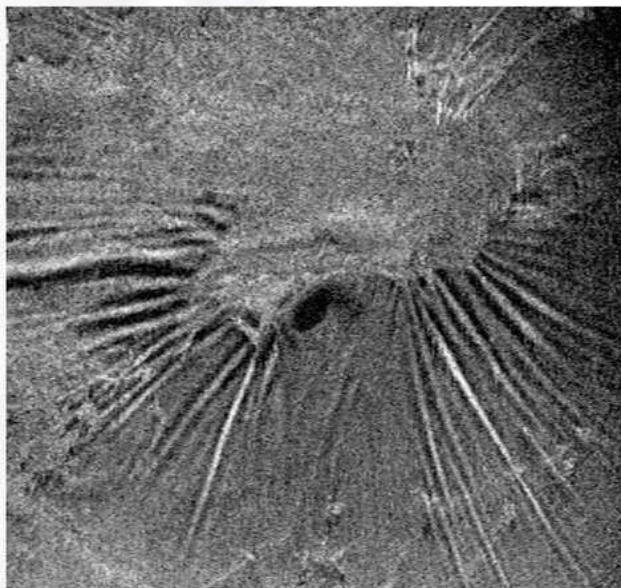


Corneal scan

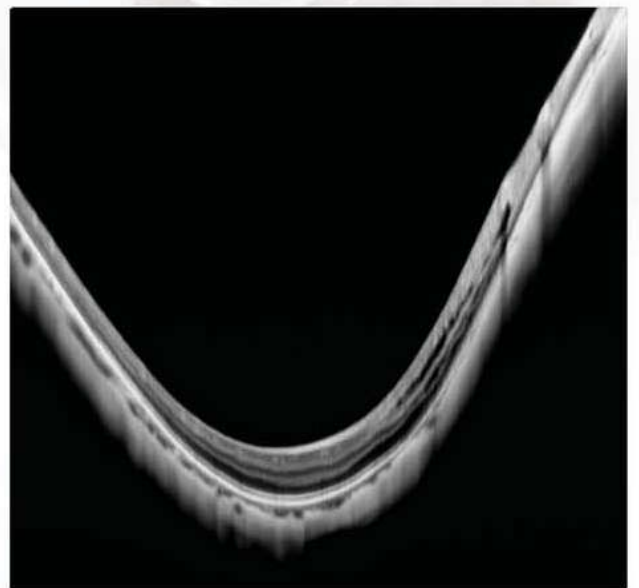
## Representative case diagrams



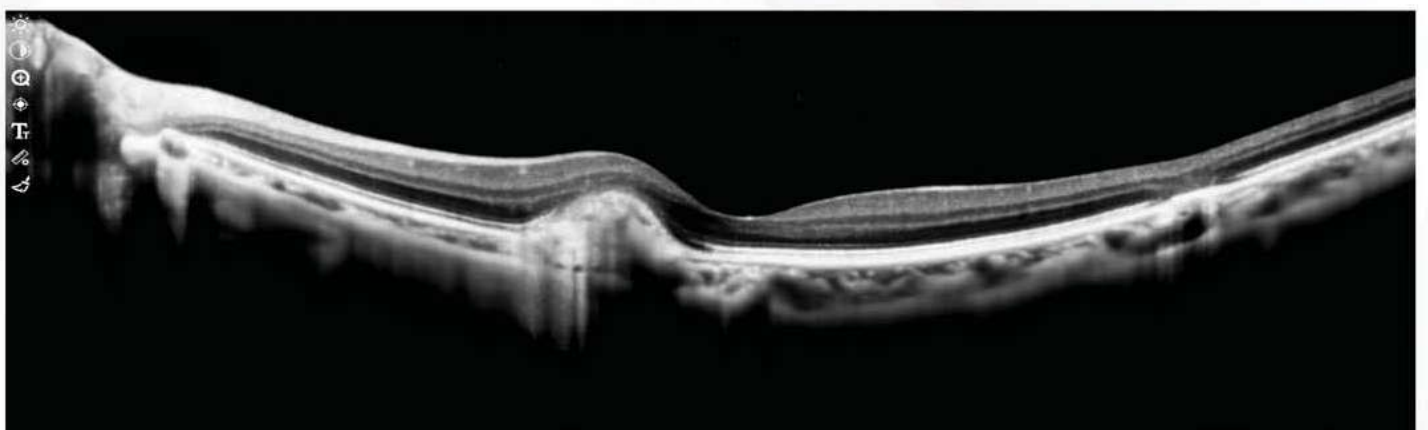
Diabetic Retinopathy(DR)



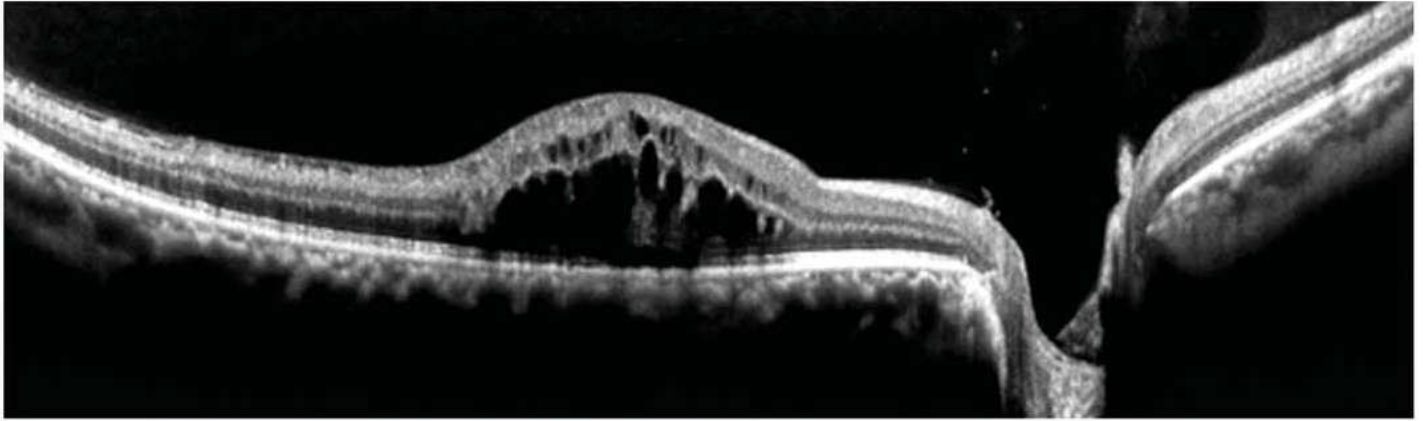
Epiretinal Membrane(ERM)



Retinoschisis



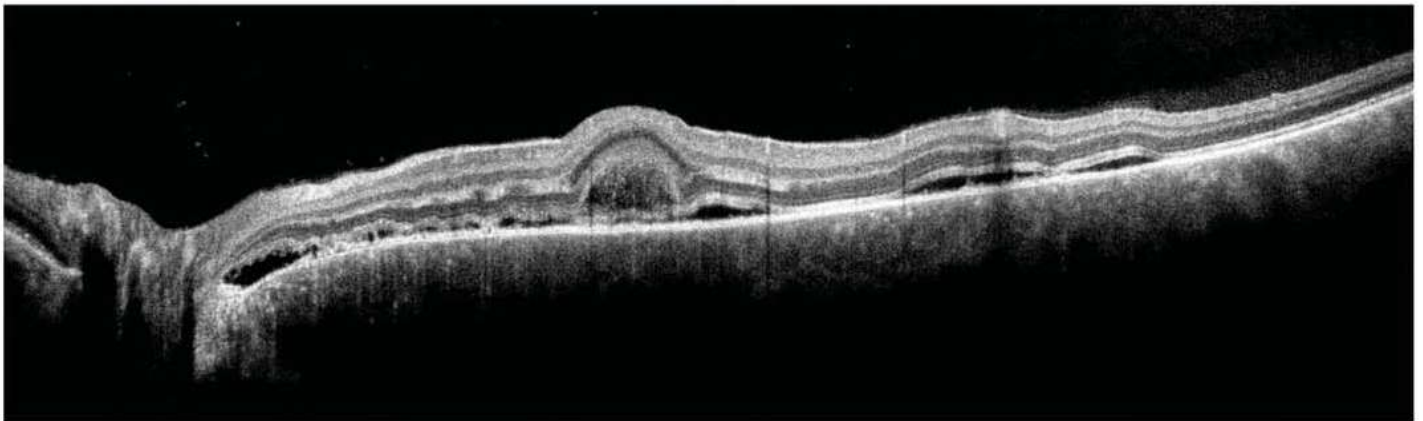
Choroidal Neovascularization(CNV)



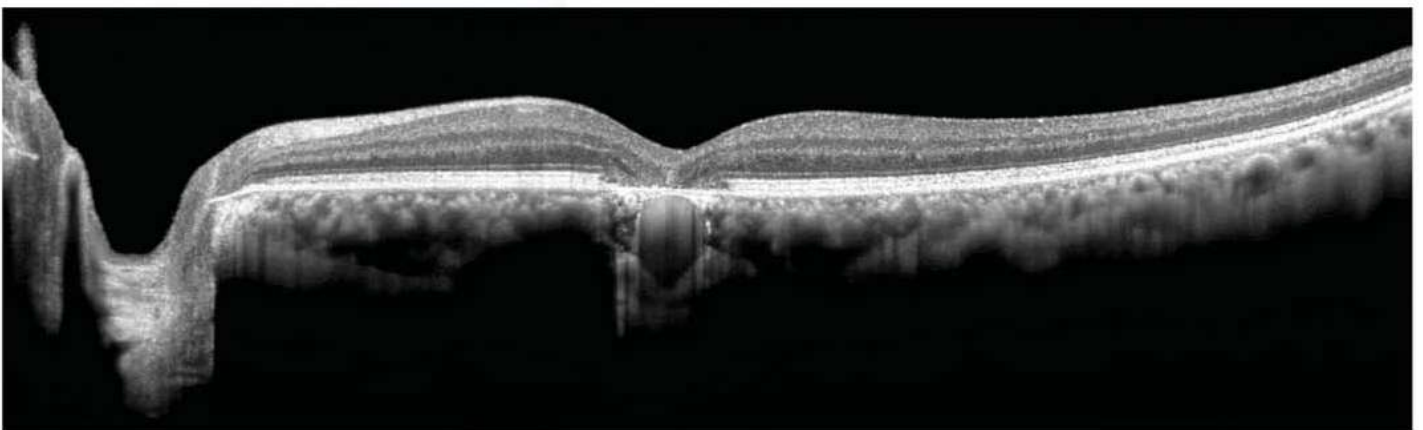
Branch retinal vein obstruction



Macular Hole(MH)



Central serous chorioretinopathy



Age-related macular degeneration(AMD)

## Technical Specifications - Eyevis EOCT 1

OCT imaging	Methodology	Spectral domain OCT	
	Scan wavelength	840±10 nm	
	Exposure power at pupil	≤600 μW	
	Working Distance	34.9 mm	
	Fixation	Both Internal as well as External	
	Scan speed	≥86kA-scan/sec	
Posterior SegmentScan	Scan depth	≥	3.5 mm
	Axial resolution	≤	5μm
	Transverse resolution	≤	15μm
Types of Imaging Options	Raster scan, single scan with adjustable orientation, dense cube scan, circle or radial scan, 3D visualization, macular thickness map		
Types of Analysis Options	Retinal thickness map-RNFL thickness map with normative database for glaucoma diagnosis, Optical nerve head analysis, optic disc scanning for glaucoma, Progression analysis of RNFL, ONH or 2D, 3D modelling, Enhanced depth imaging for choroidal layer scanning, Fovea to disc alignment, auto disc centration or auto fovea finder, Posterior pole symmetry analysis or combined ganglion cell+IPL and RNFL deviation map for glaucoma diagnosis, Segmentation of different layer of retina RPE elevation analysis or enface image analysis		
Anterior SegmentScan	Scan depth	≥	3.5 mm
	Axial resolution	≤	5μm
	Transverse resolution	≤	20μm
Anterior Segment Imaging	Auto central corneal thickness (CCT), Anterior chamber angle view, Cornea view		
Accuracy measurement	≤3%		
Type of Scan	Macular, Optic Disk, HD Scan		
No of A Scans x B Scan	512 A Scans x 128 B Scan, 200 A Scans x 200B Scans		
A-Scan Depth	13.5mm		
Center Wave Length	942 + 10nm		

## Technical Specifications - Eyevis EOCT 1

	Light Source	Single SLD
	Type of Imaging	Mono Color
	Picture Angle	45° x 30°
	Minimum Photographable Pupil Diameter	2.00mm
Depth Resolution		3.5mm – 13.5mm
	Vertical Scan Range on Fundus	13.5mm depth, Axial Resolution $\leq 5\mu\text{m}$
	Horizontal Scan Range on Fundus	13.5mm depth, Transversal Resolution $\leq 15\mu\text{m}$
	Vertical Scan Range on Cornea	3.5mm depth, Axial Resolution $\leq 5\mu\text{m}$
	Horizontal Scan Range on Cornea	3.5mm depth, Transversal Resolution $\leq 20\mu\text{m}$
Lateral Resolution		Transversal Resolution $\leq 15\mu\text{m}$
Fundus imaging	Methodology	Line scanning Ophthalmoscope ( pSLO & IR )
	Scan wavelength	942±10 nm
	Exposure power at pupil	$\leq 1500 \mu\text{W}$
	Field of view	Width: $\geq 45^\circ$
		Height: $\geq 30^\circ$
	Frame rate	$\geq 7\text{Hz}$
Patient interface	Internal fixation focus adjustment	-20D ~ +20D
Physical Specifications	Dimensions	532H×346W×618D(mm)
	Weight	35kg
Software Operating	CPU	i5
	Hard Disk	1T or above

## Technical Specifications - Eyevis EOCT 1

Conditions	Memory	32G or above
	GPU	8G or above
	Display resolution	2560×1440 or above
	Operating System (OS)	Windows 10 and its compatible version
Operating Conditions	Input Voltage	100-240V~
	Frequency	50/60Hz
	Input Power	100VA
	Temperature	10°C to +35°C
	Relative humidity	30% to 90%
	Atmospheric pressure	80 KPa to 106KPa
Storage Conditions	Temperature	-10°C to +55°C
	Relative humidity	10% to 95%
	Atmospheric pressure	70 KPa to 106KPa
Transport Conditions	Temperature	-40°C to +70°C
	Relative humidity	10% to 95%
	Atmospheric pressure	50KPa to 106Kpa
	Vibration, sinusoidal	10Hz to 500 Hz:0,5g
	Shock	30g, duration 6ms
	Bump	10g, duration 6ms
Service lifetime		10 years

## Company profile

Eyevis Mediworks Pvt. Ltd. Is backed by national-level distinguished high-level talents and internationally renowned OCT experts. The core research and development team is composed by Ph.D and post-doctors from the University of Washington.

Our teams focus on the R&D and production of cutting-edge ophthalmic optical medical equipments. We are committed to provide multifunctional ophthalmic imaging products assisting diagnosis and treatment. The product lines cover a variety of optical devices for posterior examination and anterior segment examination. The core product is the optical coherence tomography (OCT), which has significant advantages in scanning speed and imaging depth. The imaging performance has reached a world-class level, which is highly competitive. We synergetically develop cost-effective ophthalmic imaging equipment to promote the broad application of advanced medical equipment in scenarios at all levels. It has significance in ophthalmological diagnosis and treatment in clinical practice.

Eyevis has simultaneously developed OCT/OCTA high-quality imaging system based on ophthalmic artificial intelligence technology and establishment of diagnosis cloud platform. Our products are empowering equipment and doctors with AI technology, establishing an intelligent system for screening and diagnosing eye disease abnormalities and disease types. With the support from AI, Eyevis is promoting the applications of ophthalmic imaging equipments in medical care, physical examination, optometry and other scenarios, so as to serve the overall process of eye healthcare.



### Eyevis Mediworks Pvt. Ltd.

Address: 811-812, Sakar - 5, Near Mithakhali Railway Crossing,  
Off Ashram Road, Ahmedabad - 380009 Gujarat, India

Email: [info@eyevis.biz](mailto:info@eyevis.biz)

Website: [www.eyevis.biz](http://www.eyevis.biz)

Telephone: +91 79 3522 0044



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