

eyevis



## Eyevis EOCT 2

High-Speed & Ultra-High Resolution Ultimate OCT Angiography  
Serving the Entire Process of Eye Health

# Fundus exploration at a glance

[8K]

Ultra HD

Acquisition image resolution  
up to 8K



High speed

86,000 A scans per second

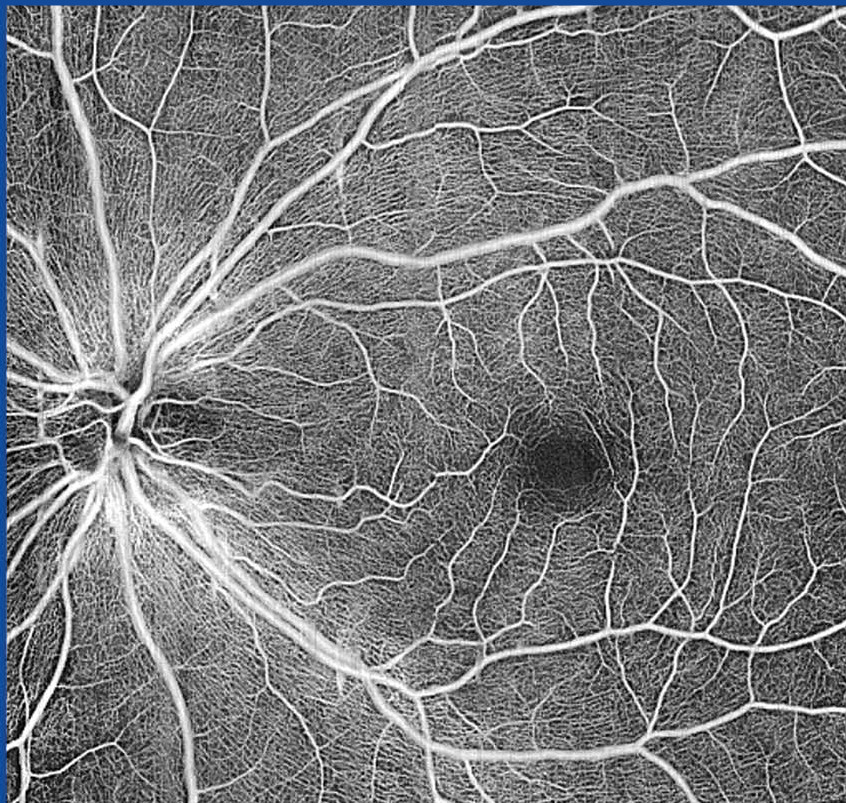


Intelligence

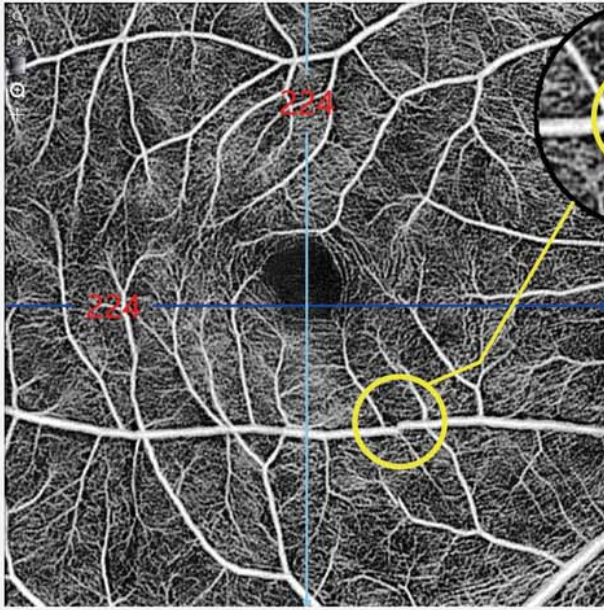
AI-assisted analysis empowers  
diagnosis

Ultra-high resolution, wide-angle imaging  
Clear visualization of ocular fundus vessels

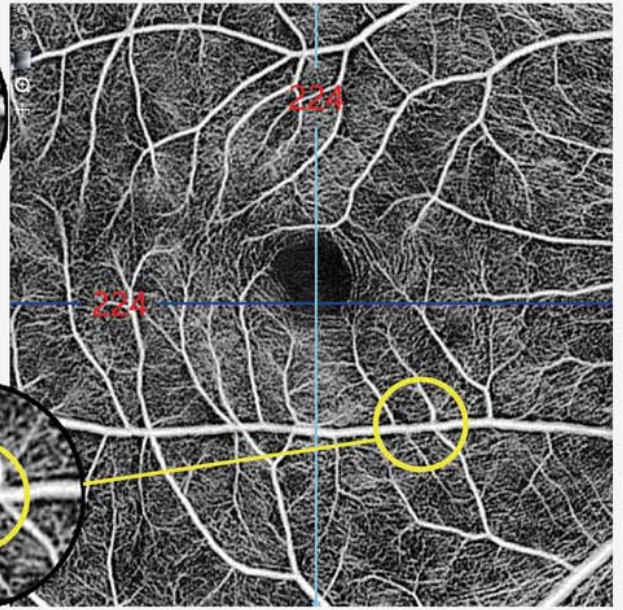
■ 9mm X 9mm wide-angle fundus microangiography



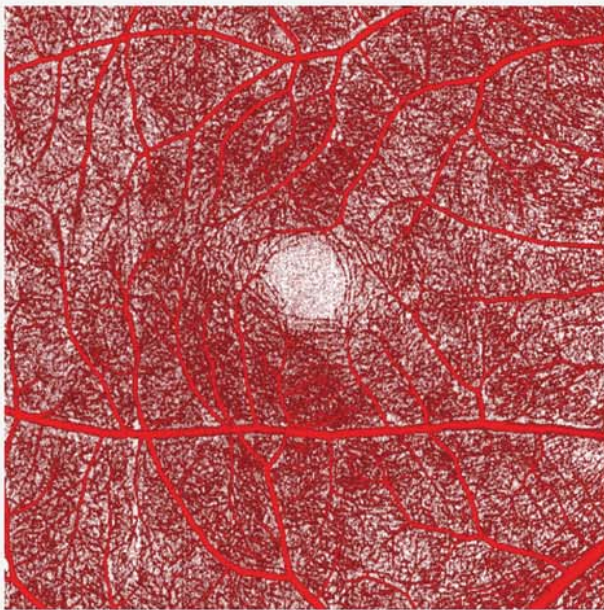
# High definition vascular microcirculation imaging · Function integration



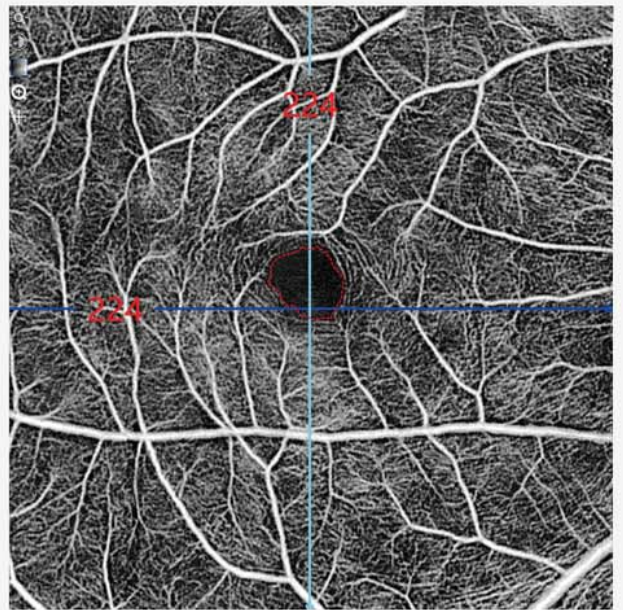
■ General vessel tracking



■ Intelligent vessel tracking



■ Identifying microcirculation



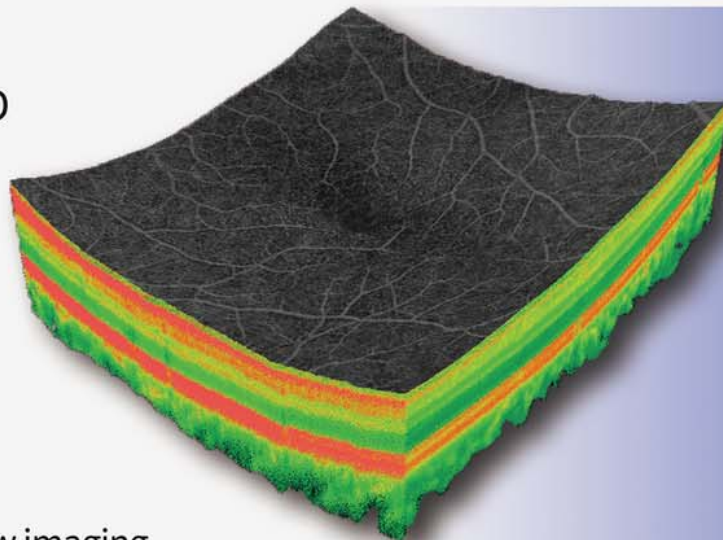
■ Foveal avascular zone analysis

Visualization of 3D fundus imaging

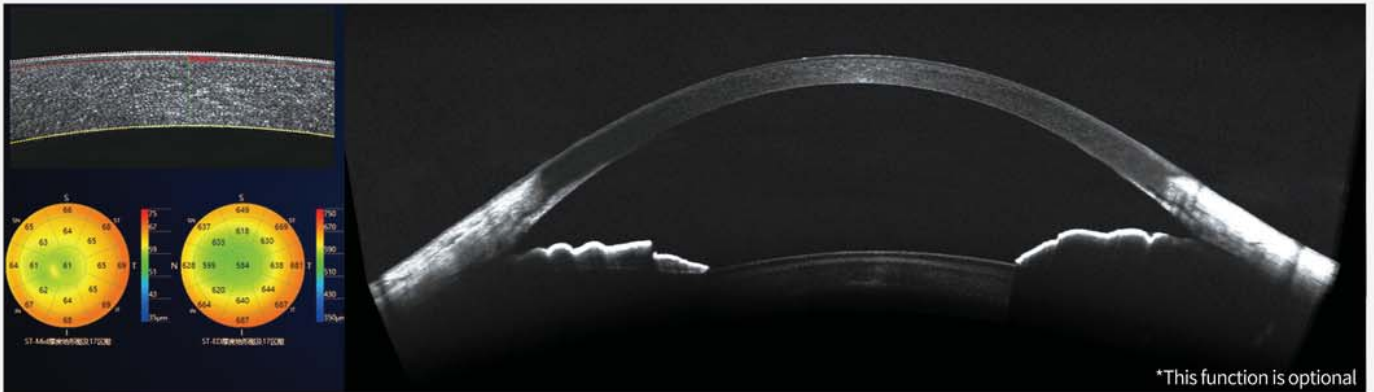
Rich details between layers

High-resolution fundus imaging

■ 3D fundus blood flow imaging



## Anterior segment detection · Accurate measurement

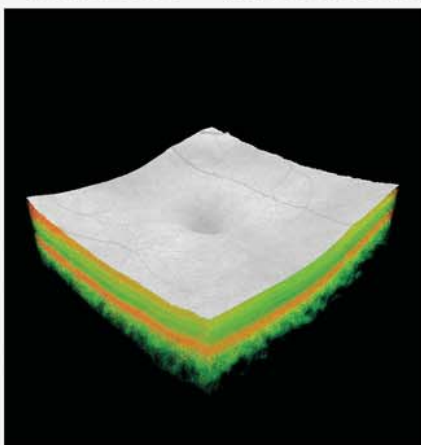


■ Panoramic anterior segment analysis | Panoramic anterior segment presentation · Corneal thickness map presentation · Corneal dividing line · Thickness measurement presentation

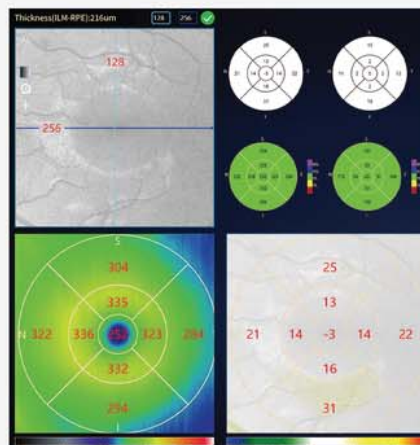
## Glaucoma & macula detection · Automatic analysis



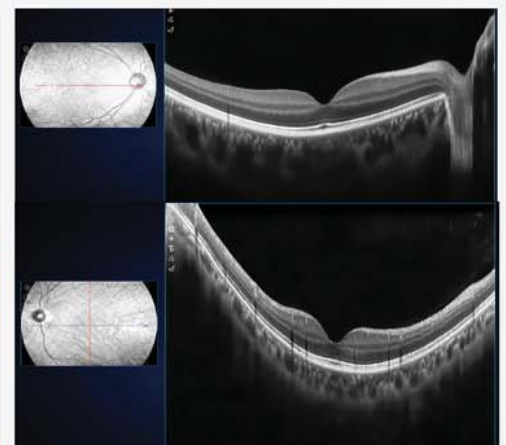
■ Glaucoma optic disc analysis | Optic disc data analysis · Thickness of RNFL · Thickness time zone · Quadrant chart



■ 3D imaging of macula

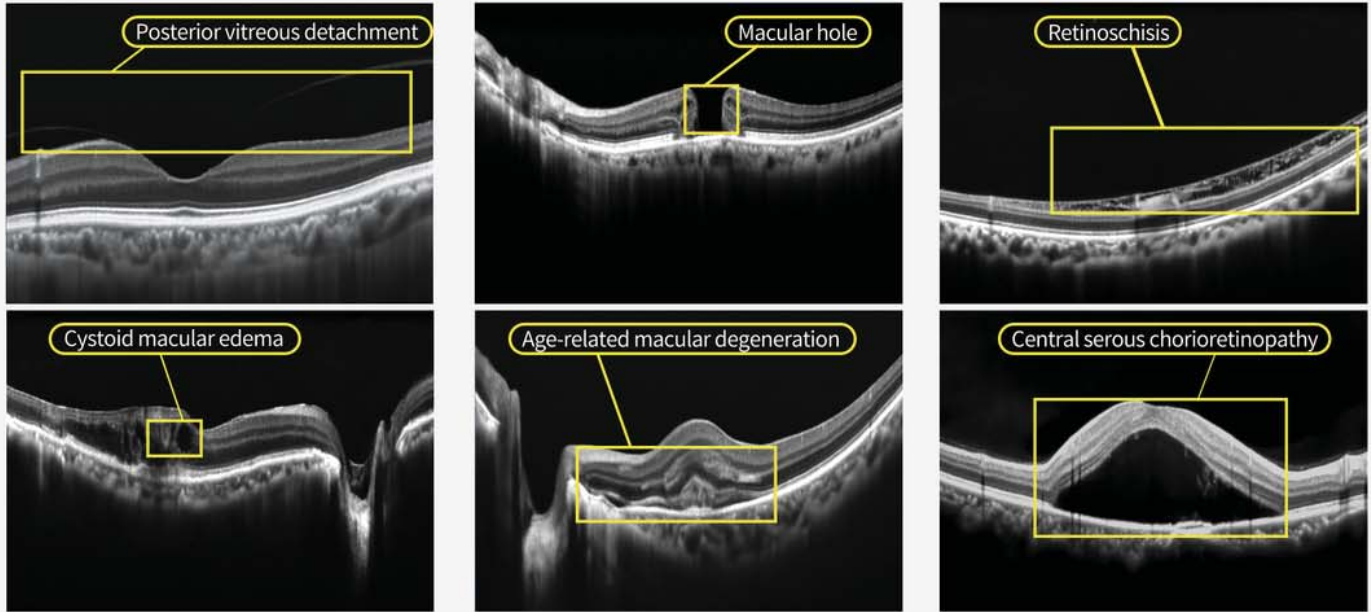


■ Thickness analysis of macula



■ Horizontal X-line scanning & cross scanning of macula

# AI recognition for eye diseases · Precise localization of eye diseases



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

**Future sub-health risk**

Testing instructions

Retinal vessels in the fundus of the eye are the only vessels that can be directly observed in the whole body. Numerous clinical studies have demonstrated that retinal vessel abnormalities are closely related to the risk of chronic diseases such as arteriosclerosis and cerebrovascular diseases. Retinal artery compression can lead to response in the early stages of hypertension, and it is also associated with peripheral vascular disease and glaucoma. On the other hand, retinal vein occlusion is related to high blood sugar levels, endothelial cell dysfunction, inflammation, and blood capillary hypoxia.

**Future sub-health risk**

**Hypertension risk** Medium risk

Your risk level is medium risk

**Diabetes risk** Low risk

Your risk level is low risk

**Myocardial infarction risk** Low risk

Your risk level is low risk

**Arteriosclerosis risk** Low risk

Your risk level is low risk

**Details of future health risks-hypertension**

Your risk level is Medium risk

Hypertension refers to elevated arterial blood pressure, which is a common cardiovascular disease. Among individuals with a genetic predisposition to hypertension, obesity, diabetes, a sedentary lifestyle, mental stress, smoking, excessive alcohol consumption, and a high-sodium diet all play a role in the development of hypertension. Additionally, sleep apnea can contribute to or exacerbate existing hypertension.

**Basis for AI prediction**

The retinal blood vessels are part of the body's vascular system, and many systemic vascular diseases may manifest as abnormalities in the retinal blood vessels. Authoritative academic studies have found a correlation between changes in abnormalities in the retinal blood vessels and the development of various cardiovascular diseases. In this screening, the AI their morphology and function and the development of various cardiovascular diseases. In this screening, the AI calculated subtle changes in the retinal arteriovenous vascular parameters of the screened patients, and abnormalities in the morphology of the fundus blood vessels, thus suggesting a possible risk of hypertension in these patients.

Future health risk prediction · Comprehensive health assessment · Multi-dimensional information reference

**AI analysis report of radiographic scanning of macula**

Macular edema

Disease probability

Macular edema **95** High risk

Abnormal (probability of abnormal model) **99** High risk

Macular edema

Frame 5 The probability is 0.05

Gray scale 14 The probability is 0.05

Frame 7 The probability is 0.05

**AI analysis report of horizontal X-line scanning of macula**

Retinal Vein Occlusion

Disease probability

Retinal Vein Occlusion **93** High risk

Abnormal (probability of abnormal model) **99** High risk

Retinal Vein Occlusion

Frame 5 The probability is 0.05

Gray scale 14 The probability is 0.05

Frame 10 The probability is 0.05

**AI analysis report of horizontal X-line scanning of macula**

Age-related macular degeneration

Disease probability

Age-related macular degeneration **97** High risk

Abnormal (probability of abnormal model) **99** High risk

Age-related macular degeneration

Frame 10 The probability is 0.05

Gray scale 14 The probability is 0.05

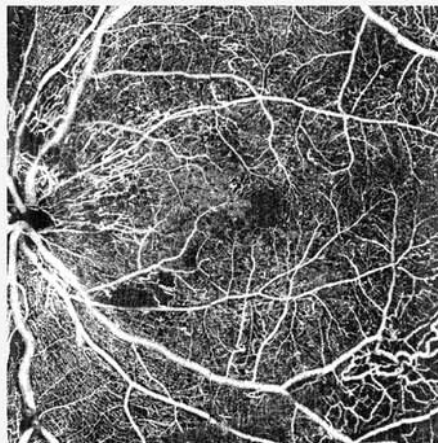
Frame 1 The probability is 0.05

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

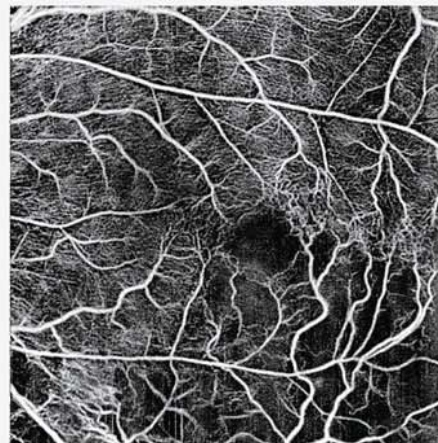
## Case maps exhibition



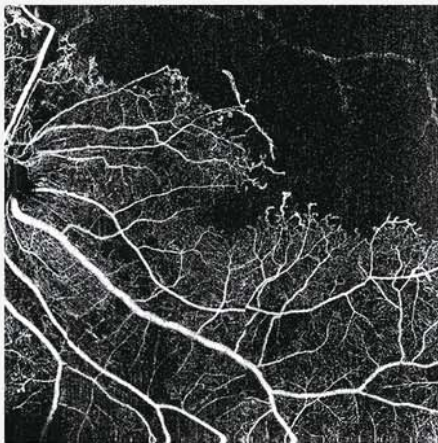
■ Proliferative diabetic retinopathy



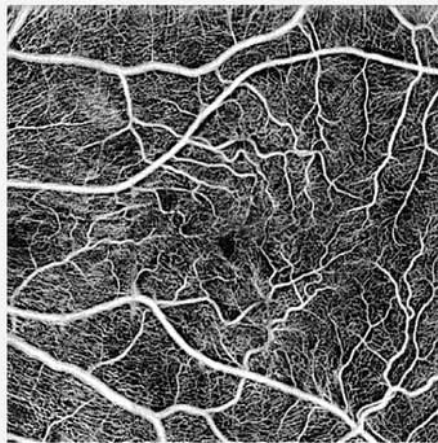
■ Non proliferative diabetic retinopathy



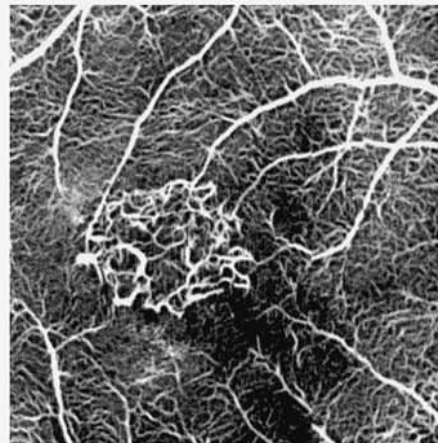
■ Branch retinal vein occlusion causes macular edema



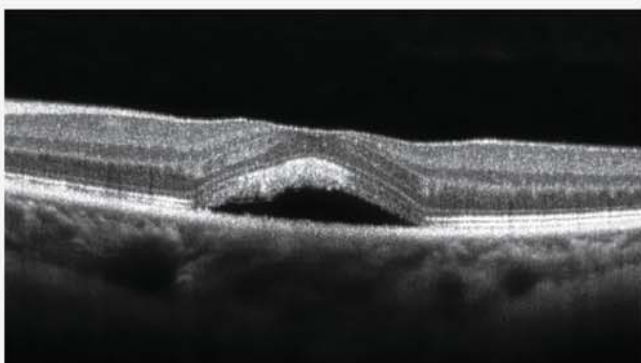
■ Branch retinal vein occlusion



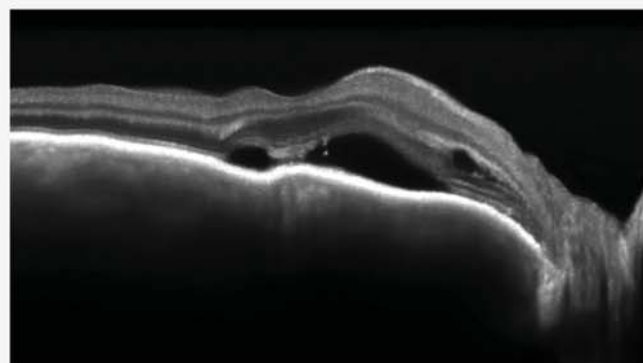
■ Epimacular membrane



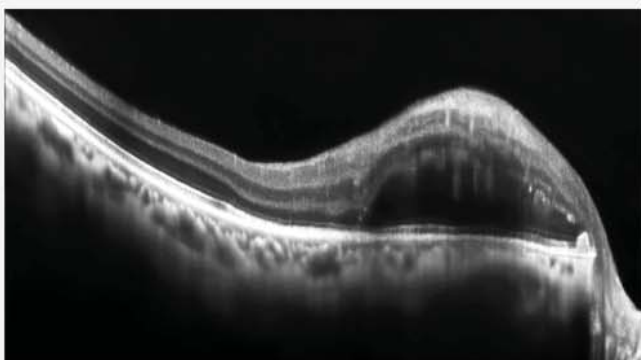
■ Choroidal neovascularization



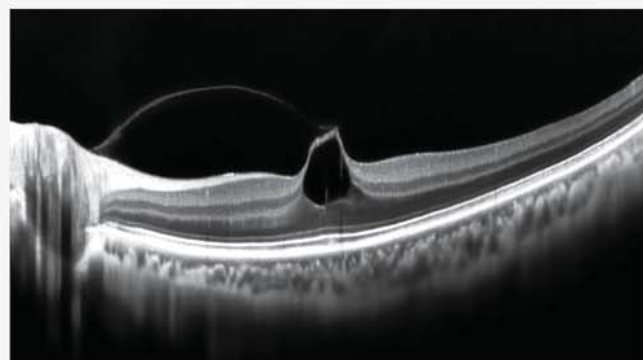
■ Central serous chorioretinopathy



■ Uveoencephalitis



■ Branch retinal vein occlusion



■ Vitreomacular traction

## Technical Specifications - Eyevis EOCT 2

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 2

	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 2

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.



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