# **Specifications**

	OCT Mode	l: BM-400K
4	OCT optical source	Swept Source
	Center wavelength	1060nm
	ОСТ	B-scan
	Scan speed	400,000 A-scans/sec
	Max. Length (posterior)	24mm
	Max. Length (anterior)	24mm
	Scan depth (posterior)	6mm
	Scan depth (anterior)	6mm
	Refractive adjustment range	-35D to +45D
	Axial optical resolution	≤6µm
	Axial best digital resolution	1.9µm
	Transverse optical resolution	10μm
	Fundus	s Imaging
	Methodology	Scanning Laser Ophthalmoscopy (SLO)
	SLO wavelength	850nm
	SLO FOV	60° ×60°
	Minimum pupil diameter	2.0mm
	Eye tracking speed	128Hz
	OCT An	giography
	Max. Single scan size (anterior)	18mm×18mm
	Max. Single scan size (posterior)	24mm×20mm
	Maximum resolution (single scan)	1536×1280
	Max. scan size (montage)	42mm×40mm
		Functions
	Anterior segment (AS) quantification	✓
	AS panoramic parameters	<u> </u>
	Thickness/volumn measurement (retina)	<u> </u>
	Thickness/volumn measurement (choroid)	<u> </u>
	Glaucoma analysis (GMA, ONH, etc.)	
	Blood flow quantification (retina)	
	Blood flow quantification (choroid)	
	Diagonal flaggreen and the state of the stat	
	Blood flow quantification (optic disk)	<u> </u>
	Blood flow quantification (AS)	Ø
	Blood flow quantification (AS)  Posterior curvature	<b>d</b>
	Blood flow quantification (AS)	Ø



Website: www.towardpi.com E-mail: info@towardpi.com





# BMizar

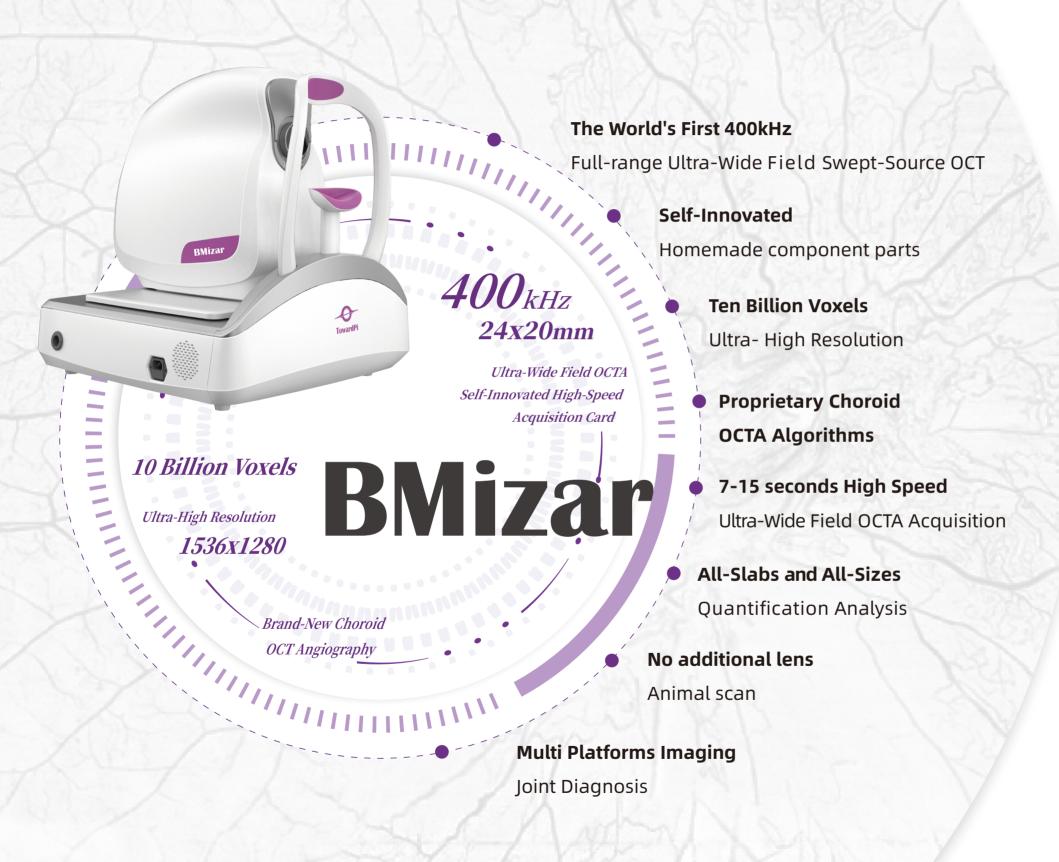
400kHz | Full Range SS-OCT/OCTA





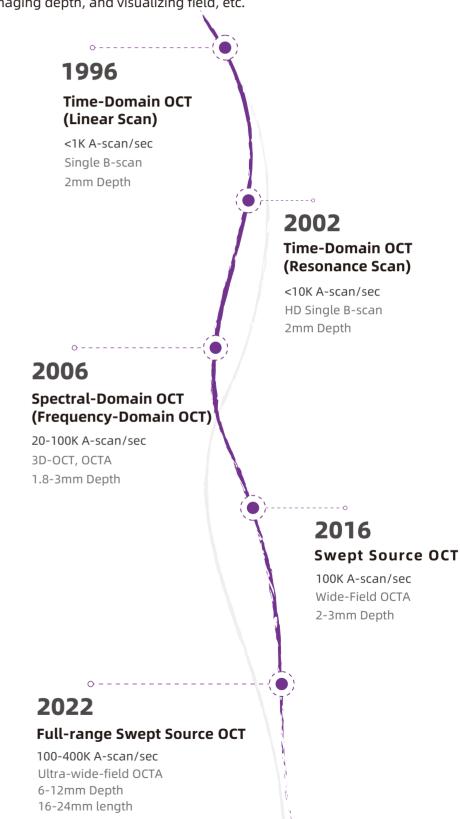
## **BMizar**

400kHz Full-range Ultra-Wide Field Swept-Source OCT/OCTA



## **Development History of OCT Technology**

OCT technology is a paradigm of medicine, engineering integration and continuous innovation. Full-range swept-source OCT technology reveals significant advantages in multiple dimensions such as scanning speed, imaging depth, and visualizing field, etc.



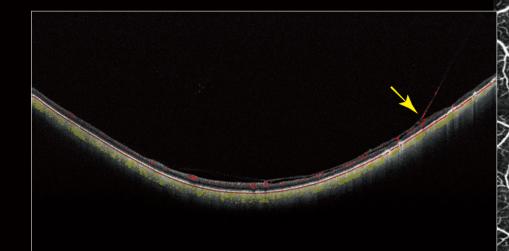
# Find More Details with Single Capture

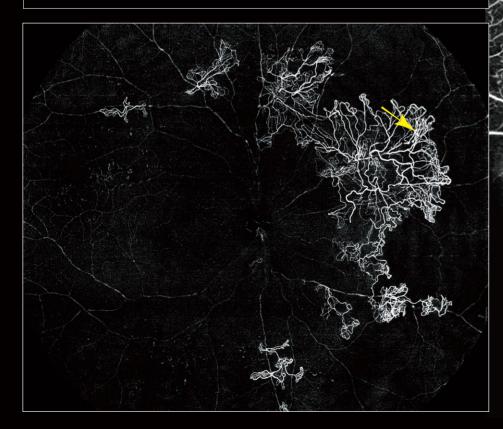
■ 10 Billion maximal voxels

24X20mm ultra-wide-field OCTA

**■** 1536x1280 ultra-high resolution

Fast aquisition speed (7-15 seconds)

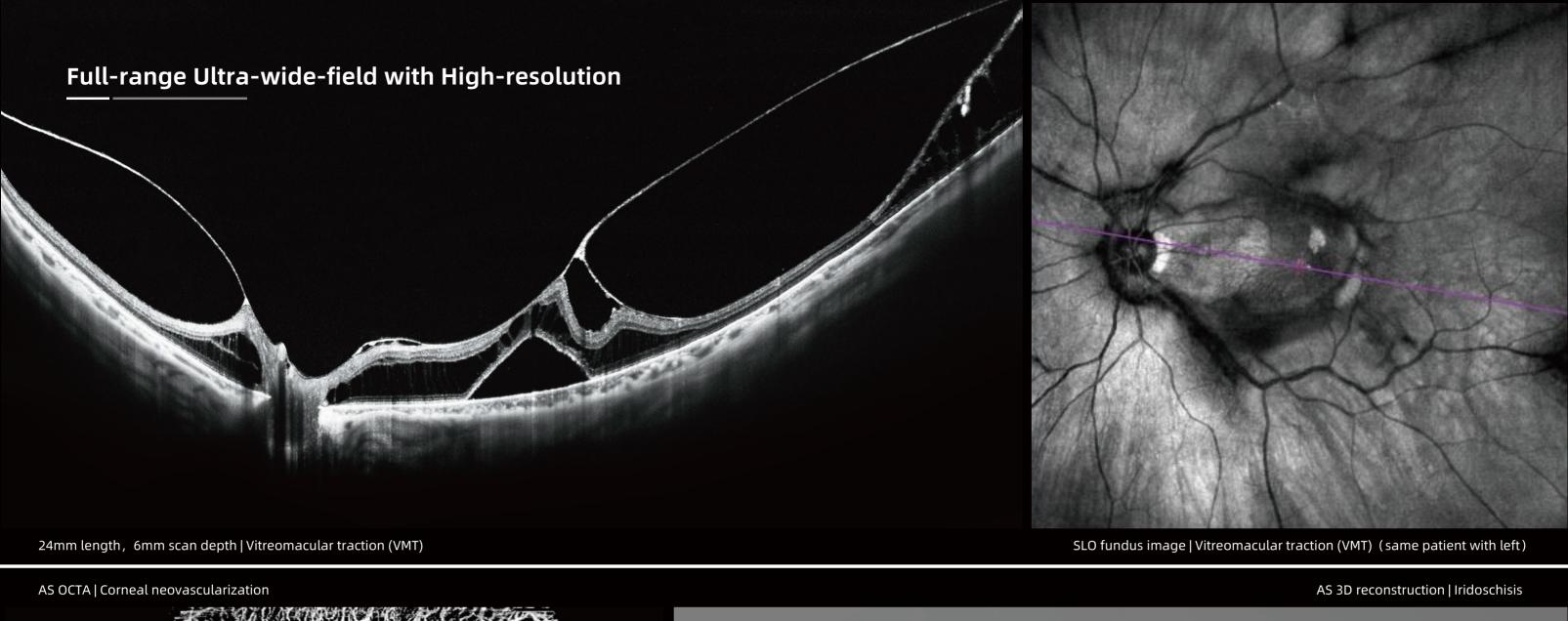






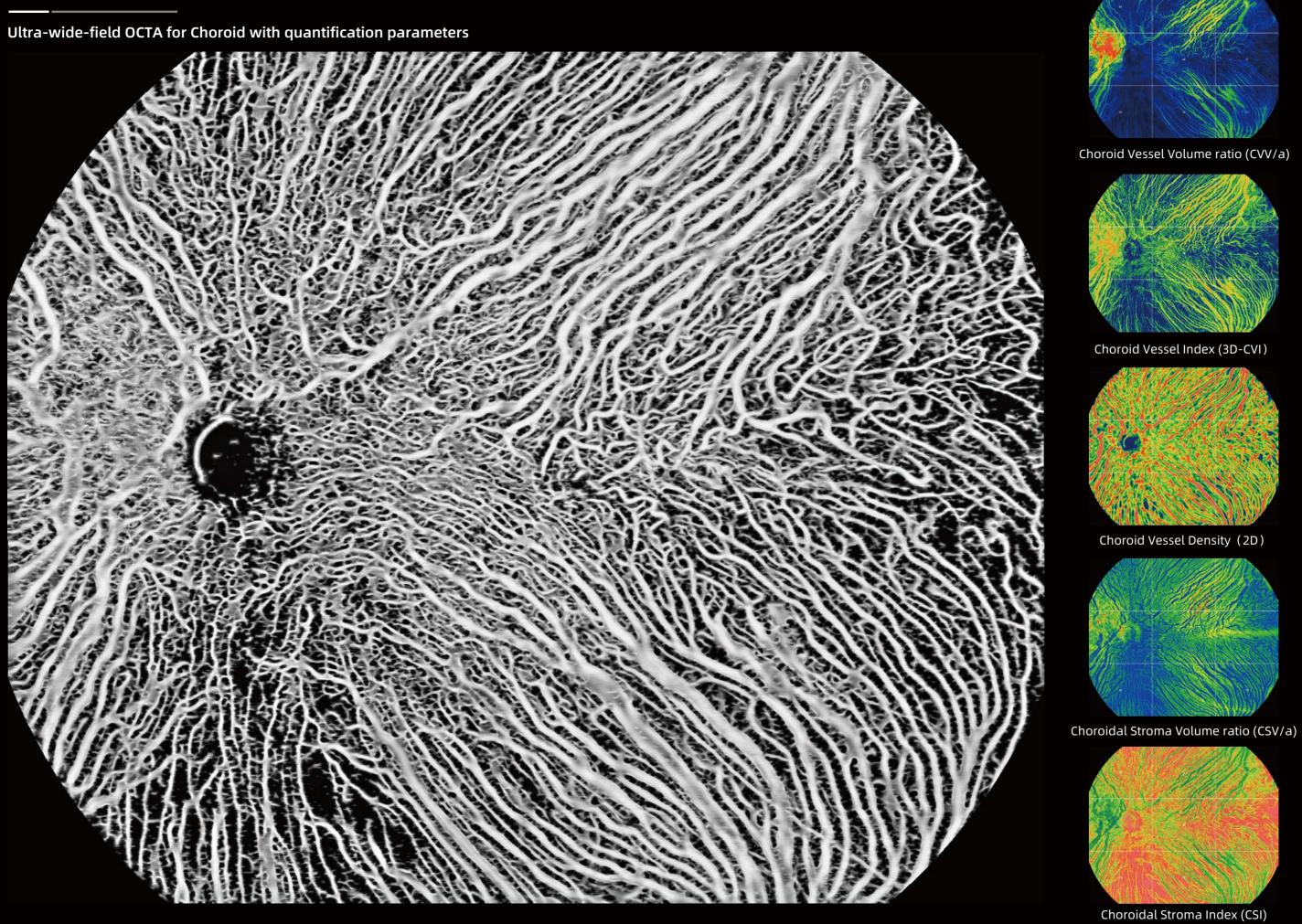
Neovascular membrane (vitreous slab)

Proliferative diabetic retinopathy (PDR)



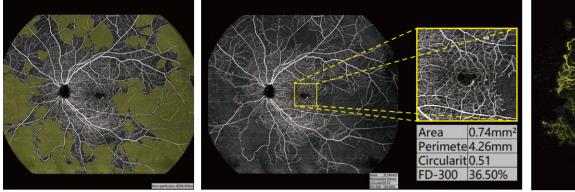


# **Reveal the Undiscovered**



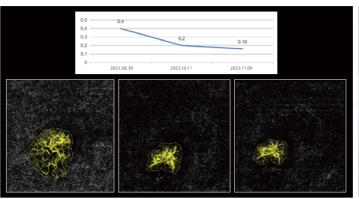
## **Comprehensive Quantitative Analysis**

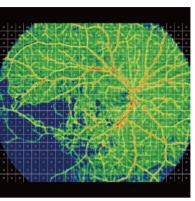
## Retinal blood flow with quantification

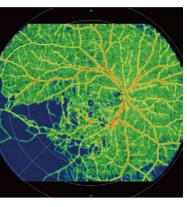


quantification

Flow Area-







Non-Perfusion Identification

quantification

FAZ parameters

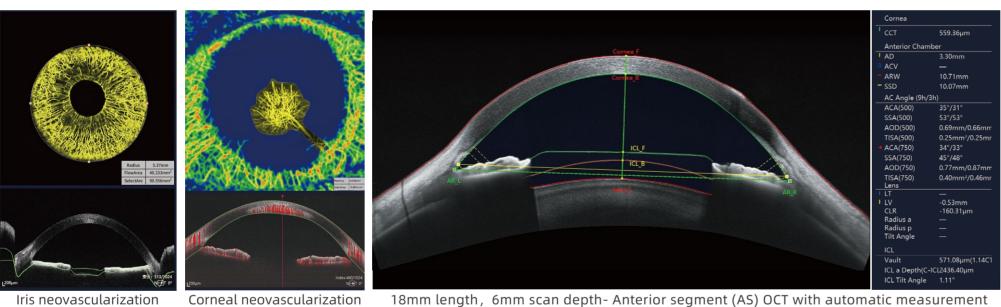
Vitreous neovascularization

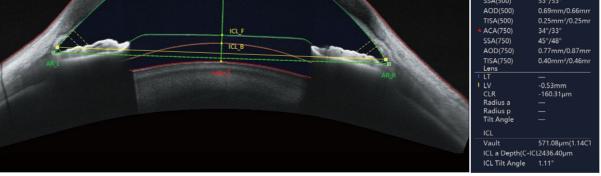
MNV Flow Area Follow-up

Flow density (Grids)

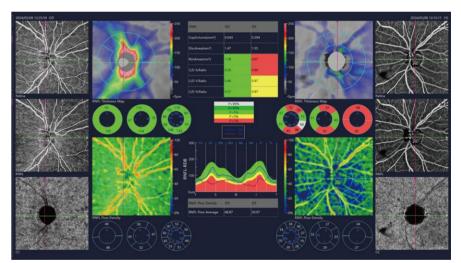
Flow density (ETDRS rings)

## AS OCTA with quantization and parameters

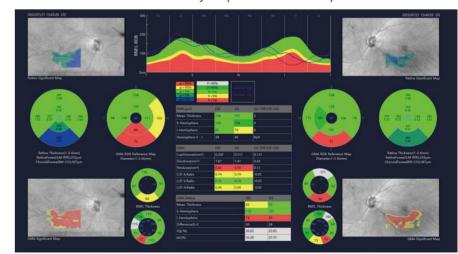




Comprehensive glaucoma analysis



ONH analysis (structure & flow)



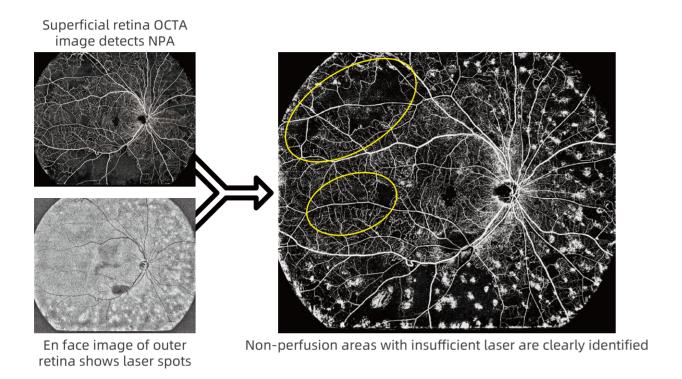
Corneal pachymetry, epithelium thickness, stroma thickness, etc.

iHealth analysis (OU report)

## Innovation.

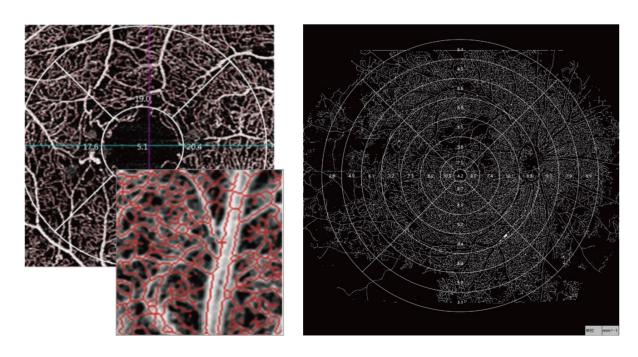
#### Spot

Precision and convenient OCTA-guided photocoagulation.



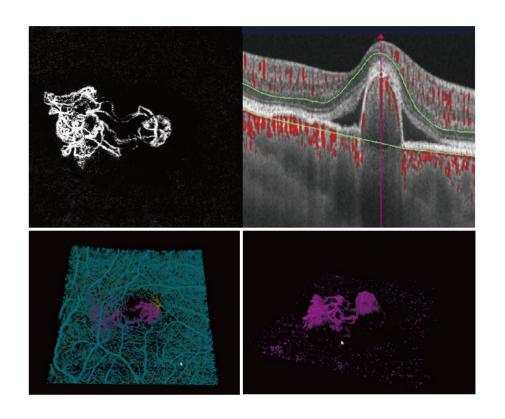
#### Vessel Skeleton Density (VSD)

The ratio of the linear length in the region to the area of the region(mm<sup>-1</sup>) after the vessels are skeletalized. More sensitive to changes in the vessels number and less affected by vessel diameter.



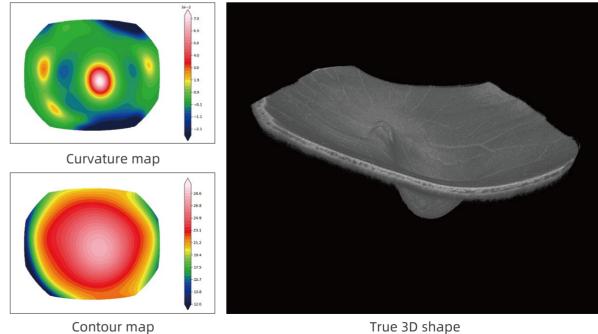
#### 3D OCTA

Visulization vessels in 3D reconstruction for customized layers.



## Retinal Morphology Trio

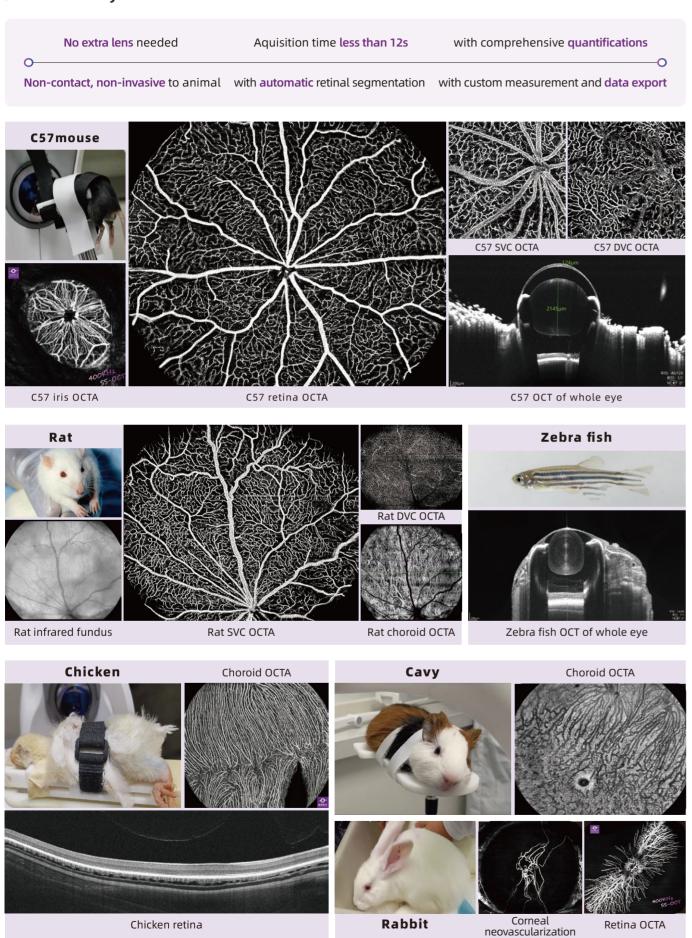
Restore the true shape of retina with built-in advanced algorithm based on 3D structure.



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## **Exploration.**

## Animal Study



#### Multi-Platforms Imaging Management

Multi-Platforms Imaging: OCT, OCTA, color fundus (CF), fundus fluorescein angiography (FFA), indocyanine green (ICG)), fundus autofluorescence (FAF), optical coherence biometer (OCB), surgical microscope, and other imaging platforms' combinations.

**Big Data Fusion:** Accurate image matching, precise quantification, support electronic medical record (EMR) systems and medical image formats (DICOM etc.).

Joint Accurate Diagnosis: Improve the sensitivity and specificity of diagnosis, evaluate eye diseases more comprehensively and precisely, improve efficiency and accuracy, and provide patients with better diagnosis and treatment experience.

