Specifications

OCT Model: YG-100K

	OCT optical source	Swept Source			
	Center wavelength	1060nm			
	ОСТ	B-scan			
	Scan speed	100,000 A-scans/sec			
	Max. Length (posterior)	17mm			
	Max. Length (anterior)	24mm			
	Scan depth (posterior)	12mm			
	Scan depth (anterior)	15mm			
	Refractive adjustment range	-20D to +15D			
	Axial optical resolution	≤6µm			
	Transverse optical resolution	10μm			
Fundus Imaging					

Methodology	Line-scanning ophthalmoscope (LSO)	
LSO wavelength	850nm	
LSO FOV	40° ×40°	
Minimum pupil diameter	2.0mm	
Eye tracking speed	60Hz	

OCT Angiography

Max. Single scan size (anterior)	18mm×18mm
Max. Single scan size (posterior)	15mm×15mm
Maximum resolution (single scan)	1024×1024

Software Functions				
Anterior segment (AS) quantification	V			
AS panoramic parameters	\checkmark			
Thickness/volumn measurement (retina)	\checkmark	177		
Thickness/volumn measurement (choroid)	\checkmark	TOB.		
Glaucoma analysis (GMA, ONH, etc.)	\checkmark			
Blood flow quantification (retina)	\checkmark			
Blood flow quantification (choroid)	\checkmark			
Blood flow quantification (optic disk)	\checkmark			
Blood flow quantification (AS)				
Posterior curvature				
3D structure	V			
3D vessel	\checkmark			

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YAlkaid

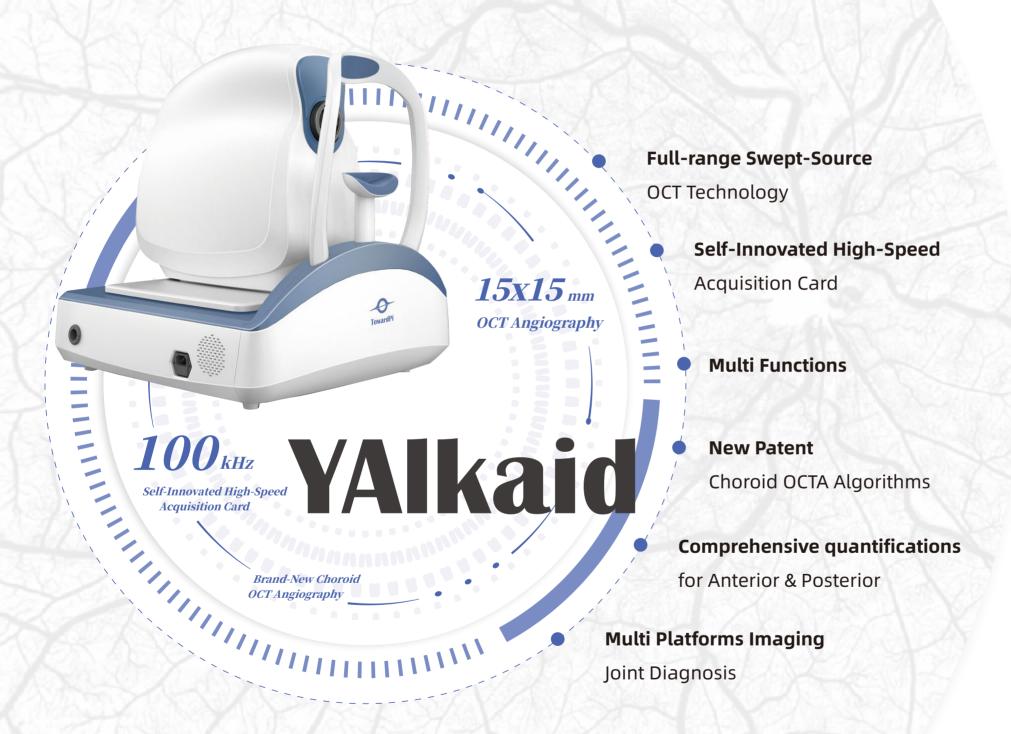
100KHz | Full Range SS-OCT/OCTA





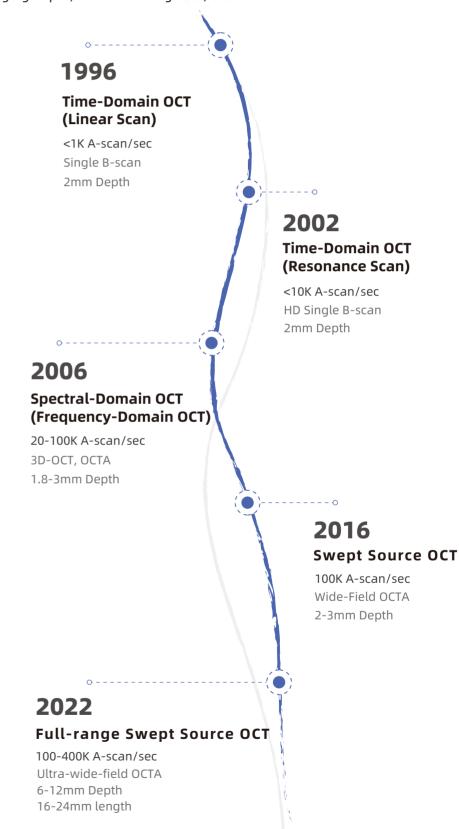
YAlkaid

■ 100kHz Full-range Swept-Source OCT/OCTA



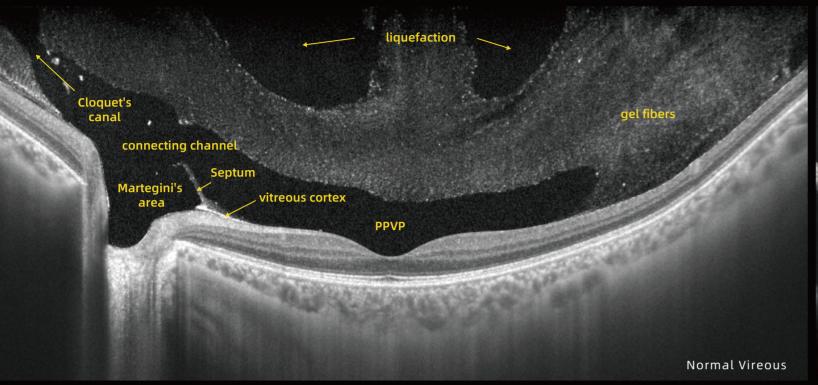
Development History of OCT Technology

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.

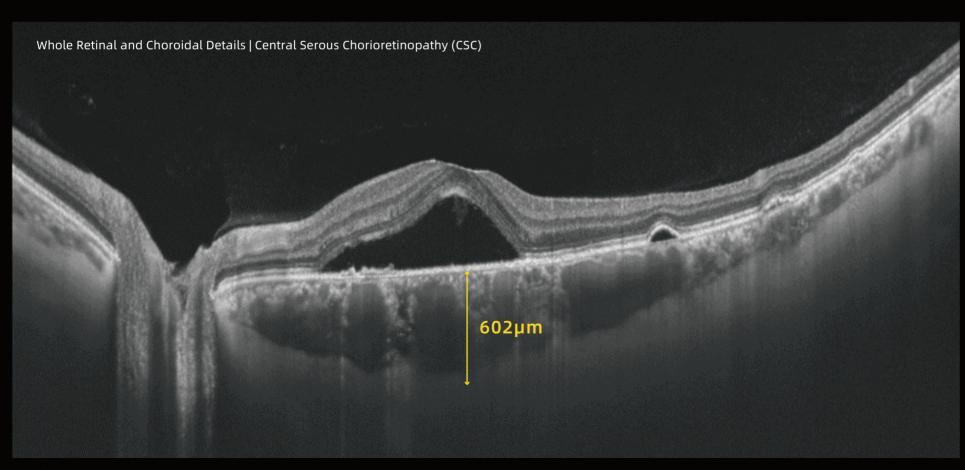


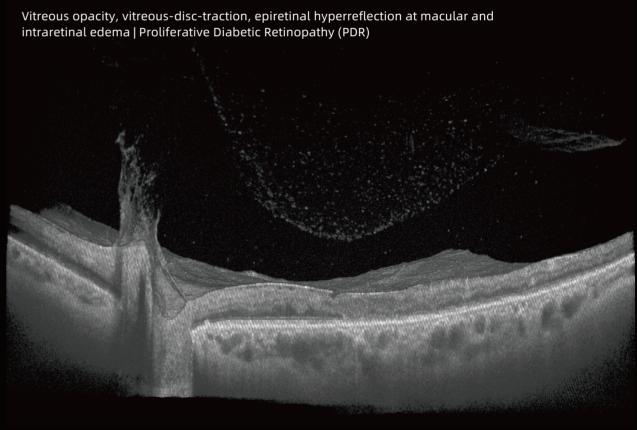
High-resolution Imaging with Full-range Swept Source OCT

Deep Depth High-resolution





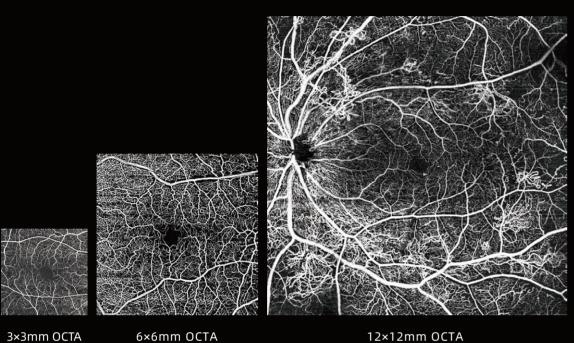


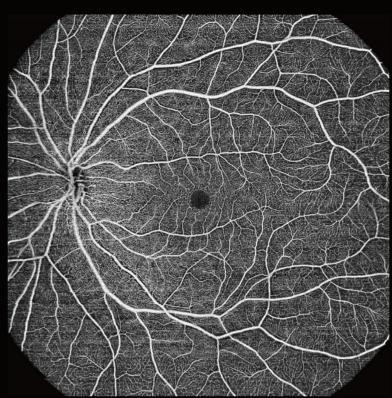


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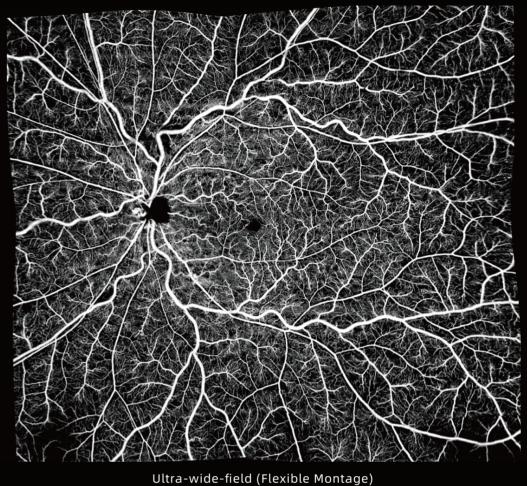
Full-range Swept Source OCT Angiography

Fast Non-invasive Efficient

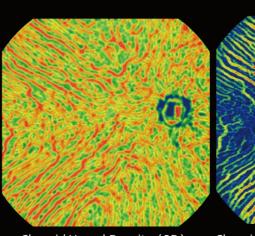


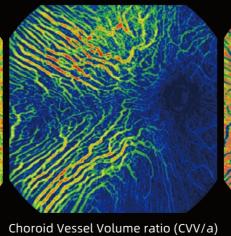


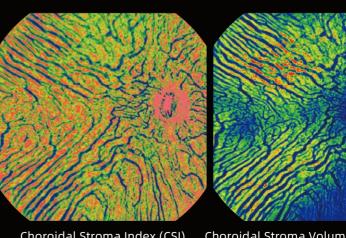
15×15mm OCTA



Choroid Vessel Index (3D-CVI) Choroid Vessel Density (2D)

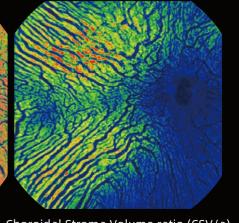






Exclusive algorithm in the world, reveal the truth of choroid

Brand-New Choroid OCTA with Quantification Parameters



Choroid OCTA

Choroidal Stroma Index (CSI) Choroidal Stroma Volume ratio (CSV/a)

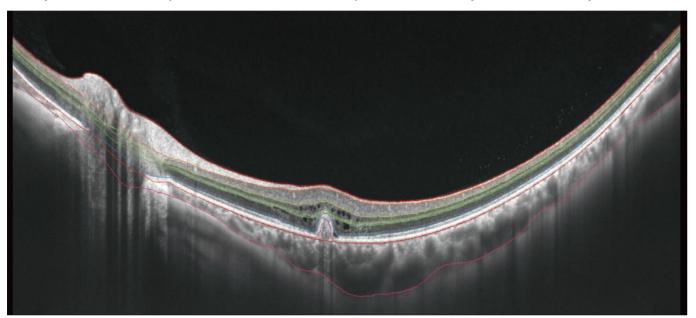
All-Slabs Quantitative Analysis for Posterior Segment

In-built AI Segmentation Algorithm, More Accurate, More Reliable

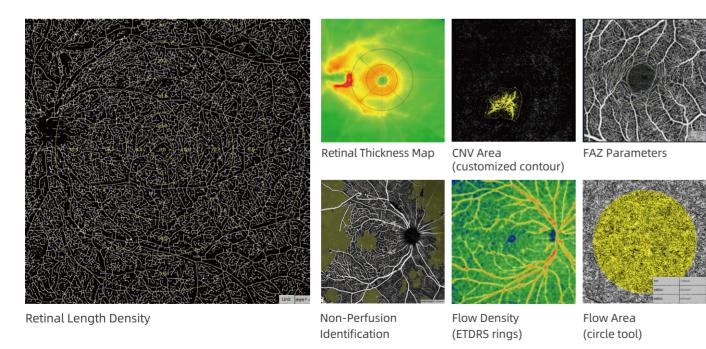
Provide automatic thickness and volume measurement including ETDRS rings for the inner, outer, and whole retina.

Provide flow area measurement, flow density quantification and automatic FAZ parameters (area, perimeter circularity, FD-300, etc.).

Provide quantifications for choroid (automatic and manual), including choroidal thickness measurement, flow density, and flow volume quantifications for choroidal capillaries, Haller's layer, and Sattler's layer.



Al-based Segmentation



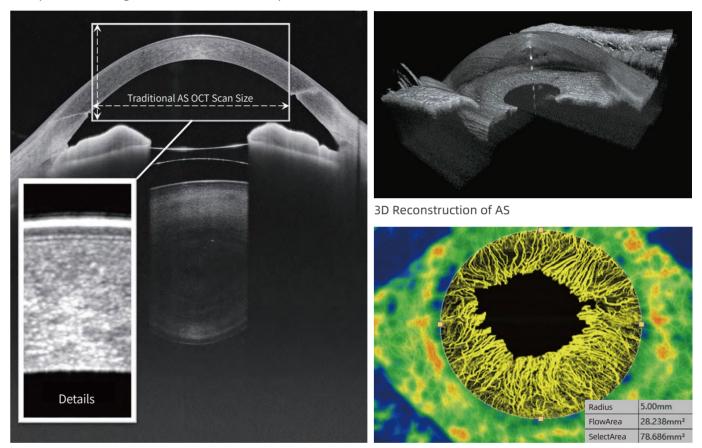
Analysis and Qualifications for Panoramic Anterior Segment

High Resolution Imaging of the Whole Cornea, Anterior Chamber, Lens, etc.

Provide corneal morphological analysis, keratoconus analysis, corneal thickness, and epithelial thickness measurement, etc.

Provide automatic and manual measurements: anterior chamber depth and volume, lens thickness, lens vault, ICL vault, angular recess width, scleral spur distance, etc.

Provide 3D reconstruction, automatic anterior chamber angle measurement, angle opening distance, trabecular iris space area, angle recess width, scleral spur distance, etc.



High Resolution Panoramic Anterior Segment

AS OCTA and Quantification | Corneal Neovascularization

Cornea Thickness Map and Epithelium Thickness Map

Automatic Measurement

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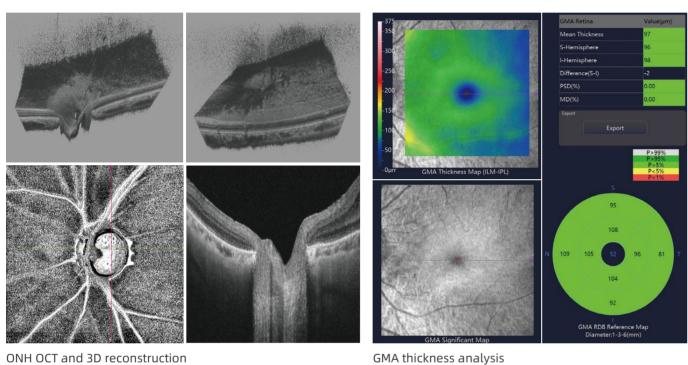
Comprehensive Glaucoma Analysis

Precision quantitative glaucoma progress management and early diagnosis with smart iHealth. Analysis and comprehensive structural and flow analysis.

Provide GMA and ONH analysis for scan sizes larger than 15mm×9mm.

Provide automatic identification of optic cup and disc, cup disc ratio (area, vertical, horizontal), cup volume, etc.

Provide RNFL analysis, ganglion cell complex analysis, ONH flow quantifications, etc.



ONH OCT and 3D reconstruction

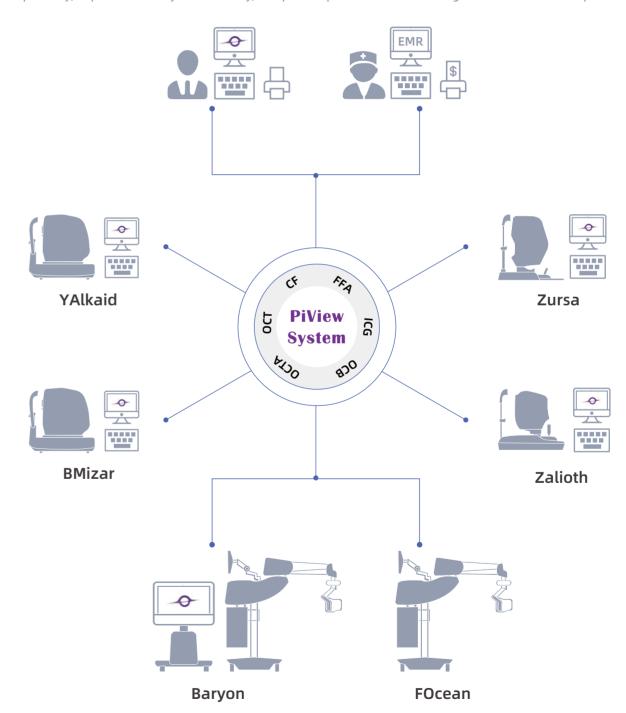
ONH analysis (structure & flow)

iHealth analysis (15mm x 9mm scan size)

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.



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