Specifications

OCT	Model:	· YG-	100K
UCI	Model	. 14-	IUUN

OCT Mo	odel: YG-100K
OCT optical source	Swept Source
Center wavelength	1060nm
0	CT 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
Axial best digital resolution	1.9µm
Transverse optical resolution	10μm
Fun	dus Imaging
Methodology	Line-scanning ophthalmoscope (LSO)
LSO wavelength	850nm
LSO FOV	40° ×40°
Minimum pupil diameter	2.0mm
Eye tracking speed	60Hz
ост	Angiography
Max. Single scan size (anterior)	18mm×18mm
Max. Single scan size (posterior)	15mm×15mm
Maximum resolution (single scan)	1024×1024
Softw	vare Functions
Anterior segment (AS) quantification	□
AS panoramic parameters	1
Thickness/volumn measurement (retir	na) 🗹
Thickness/volumn measurement (chord	pid) ☑
Glaucoma analysis (GMA, ONH, etc.)	
Blood flow quantification (retina)	✓
Blood flow quantification (choroid)	
Blood flow quantification (optic disk)
Blood flow quantification (AS)	
Posterior curvature	
3D structure	✓
3D vessel	

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YAlkaid

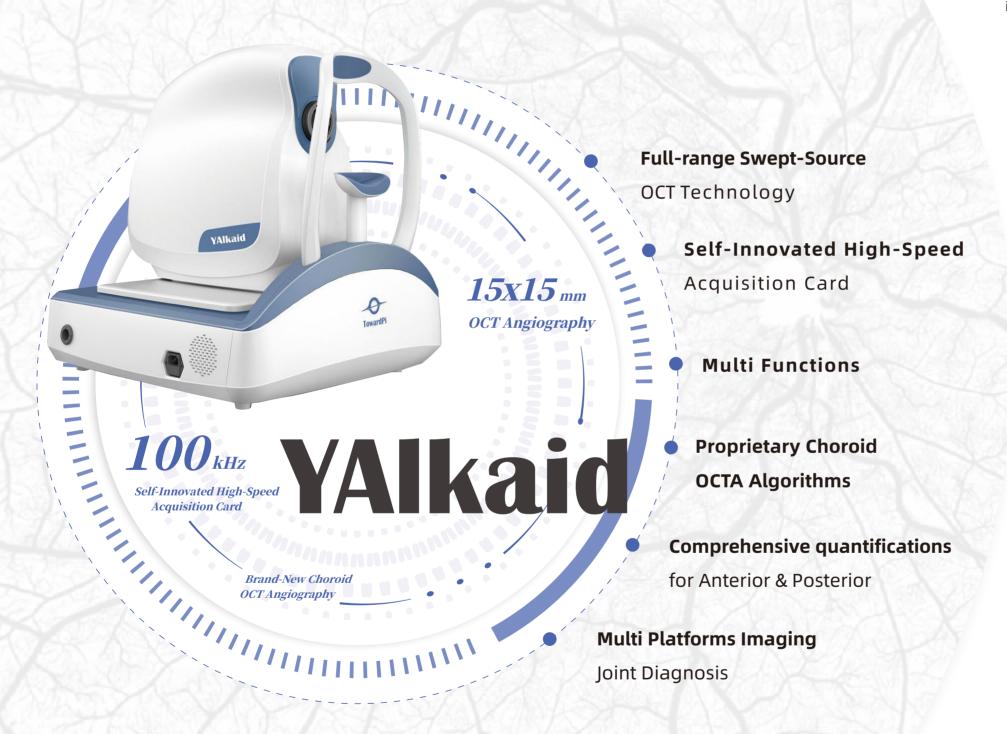
100kHz | Full Range SS-OCT/OCTA





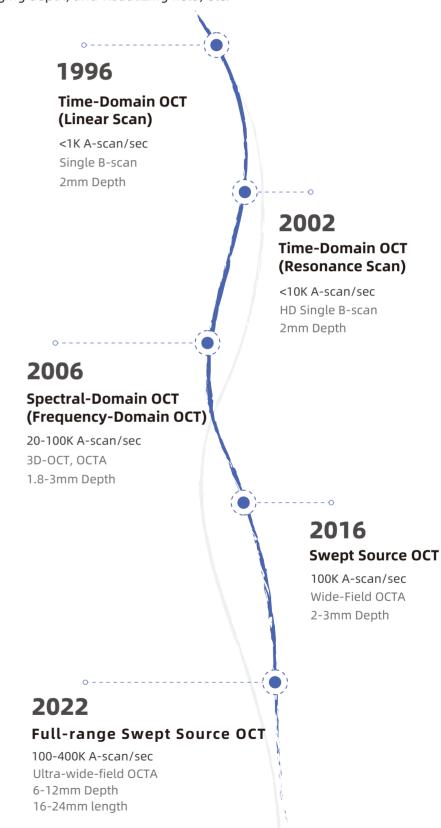
YAlkaid

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



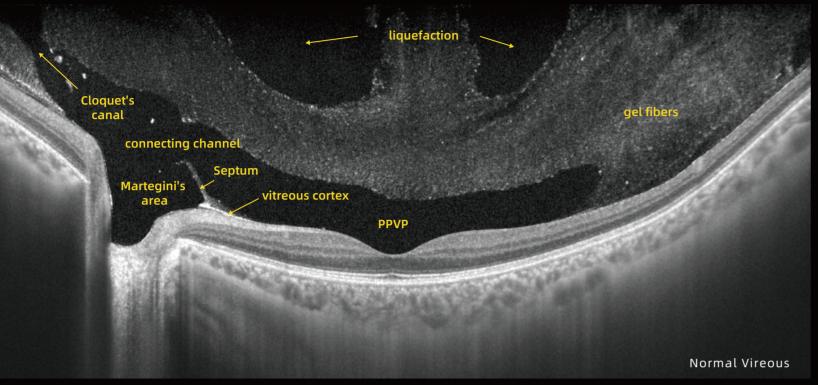
Development History of OCT Technology

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.

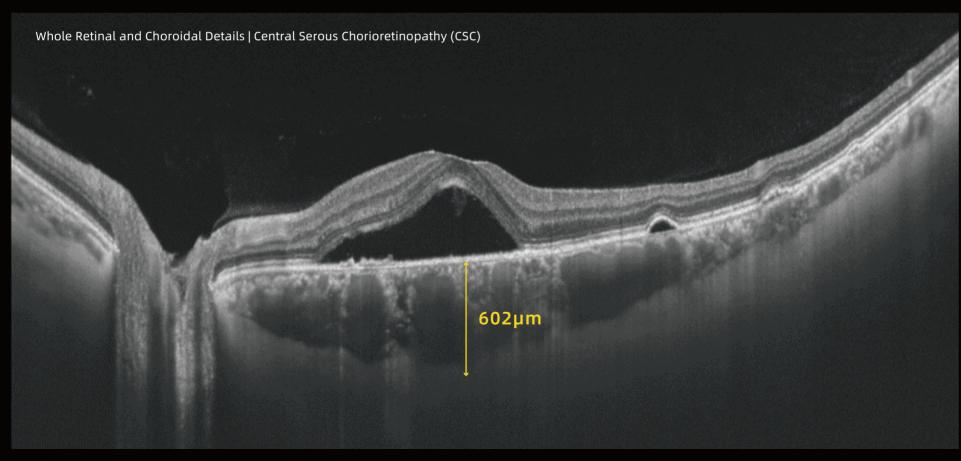


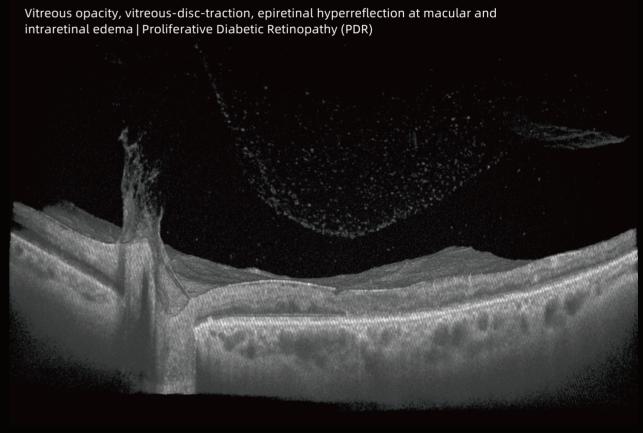
High-resolution Imaging with Full-range Swept Source OCT

Deep Depth High-resolution



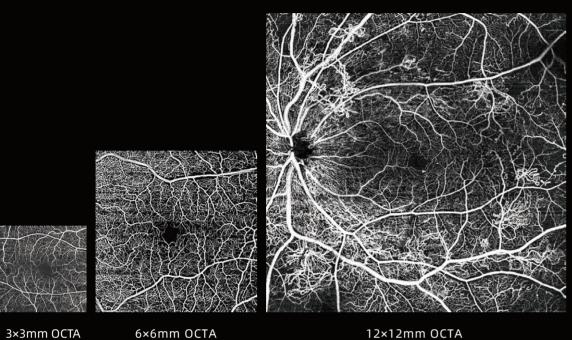


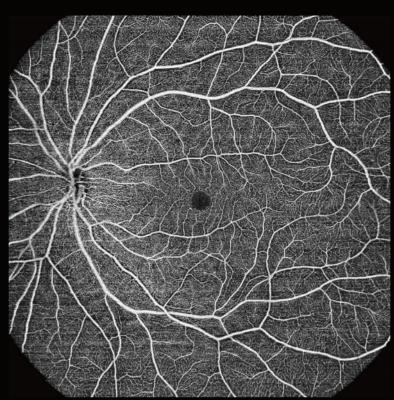




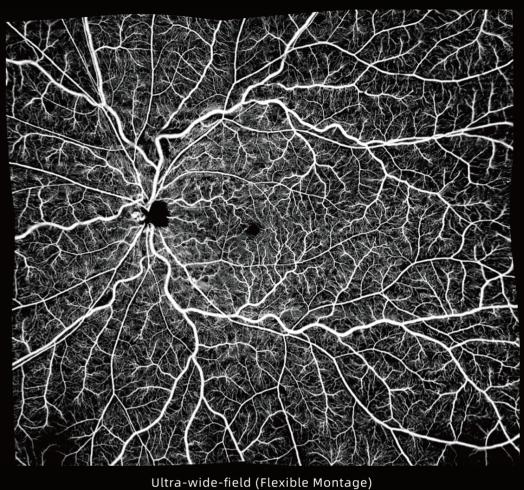
Full-range Swept Source OCT Angiography

Fast Non-invasive Efficient





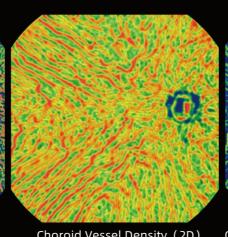
15×15mm OCTA

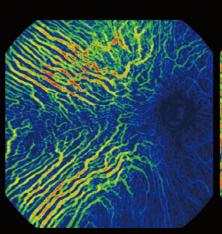


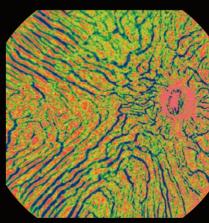
Exclusive algorithm in the world, reveal the truth of choroid

Choroid OCTA

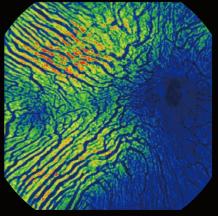
Choroid Vessel Index (3D-CVI)







Brand-New Choroid OCTA with Quantification Parameters



Choroid Vessel Density (2D)

Choroid Vessel Volume ratio (CVV/a)

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

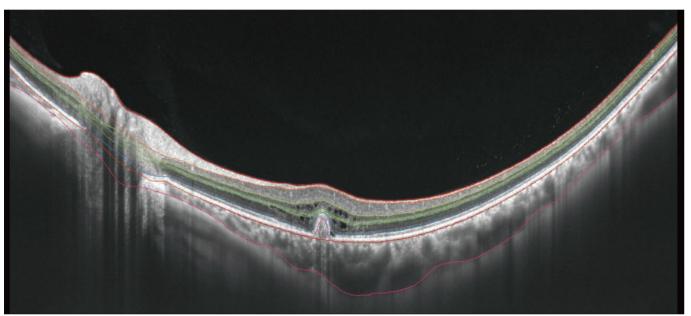
All-Slabs Quantitative Analysis for Posterior Segment

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

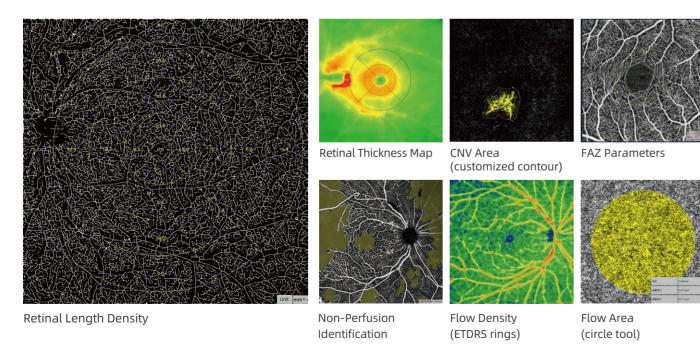
Provide automatic thickness and volume measurement including ETDRS rings for the inner, outer, and whole retina.

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



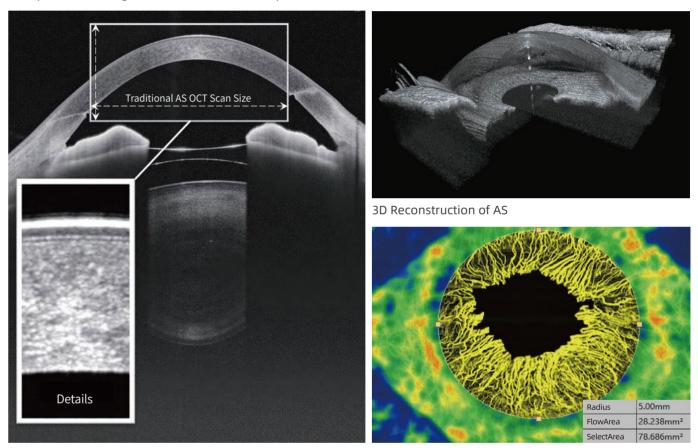
Analysis and Qualifications for Panoramic Anterior Segment

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

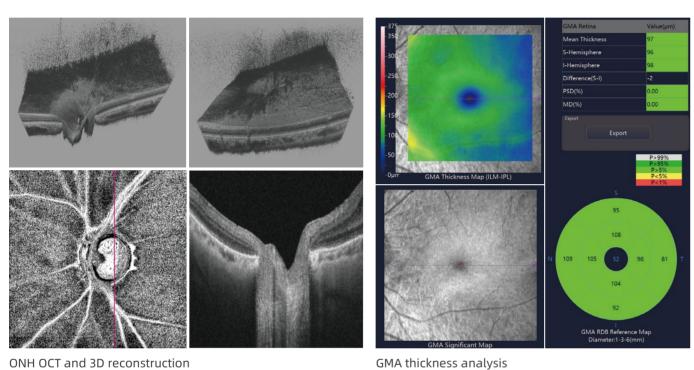
Comprehensive Glaucoma Analysis

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.

