



Basic Functions

Ocular biometrics	Axial length, corneal thickness, anterior chamber depth, crystalline lens thickness, vitreous cavity depth, corneal anterior surface curvature, corneal posterior surface curvature, total corneal curvature, AL/CR, white-to-white (corneal diameter), pupil diameter, kappa angle, alpha angle, spherical aberration, high-order aberration, lens tilt, lens decentration, lens analysis.
Dynamic visualization	Real-time cornea to retina in 12 orientations
Ocular conditions	Normal eye, post-corneal surgery eye, aphakic eye, pseudophakic eye, phakic IOL eye, silicone oil tamponade, water tamponade

Specifications

Light source	Swept-source optical coherence tomography
Central wavelength	1060nm
Scan speed	25,000 A-scans/sec
Corneal keratometry	36 points

Measurement Range

Axial length	14-44 mm
Central corneal thickness	0.2-1.5 mm
Anterior chamber depth	0.7-9.5 mm
Crystall lens thickness	0.5-10 mm
Vitreous cavity depth	1-42 mm
Corneal curvature radius	5-11 mm
Pupil diameter	1-14 mm
White-to-White	6-17 mm

Built-in IOL Calculation Formulas

Standard IOL formulas	SRK II , SRK T, Hoffer Q, Holladay, Haigis, Kane (optional), EVO (optional)
Toric IOL formulas	Kane (optional), EVO (optional)
Post-refractive surgery formulas	EVO (optional), Haigis-L, Shammas-PL
Keratoconus formula	Kane (optional)

Supplementary Features (Optional)

Trend analysis	
IOL optimization	
Lens analysis	
Irregular astigmatism analysis	

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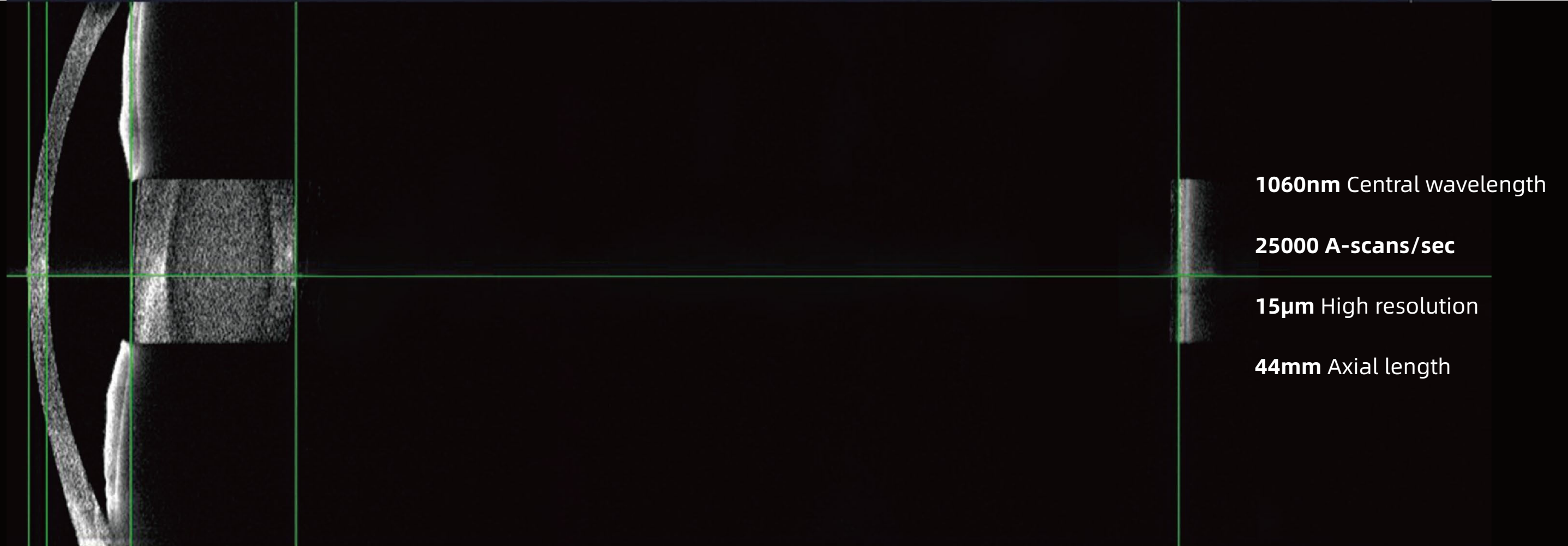


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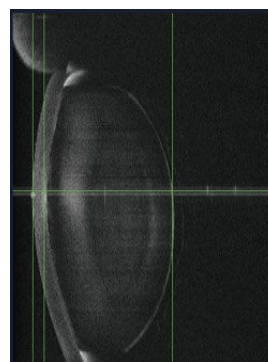


-Zalioth-
Swept-Source Optical Biometer

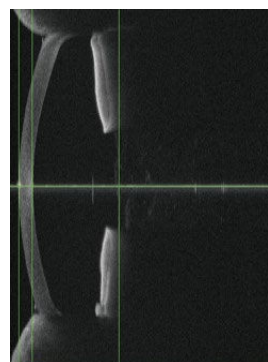
Innovative Functions | Dynamic Panoramic Axial Imaging | Comprehensive Performance



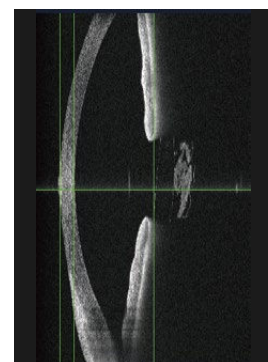
► Dynamic Panoramic Visualization Visualize the True Axial Length



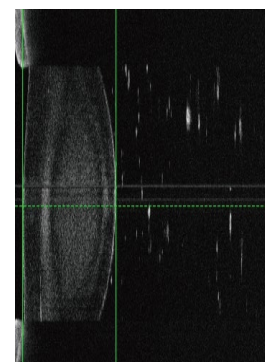
■ Lens dislocation



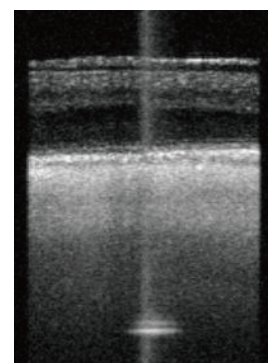
■ Aphakic eye



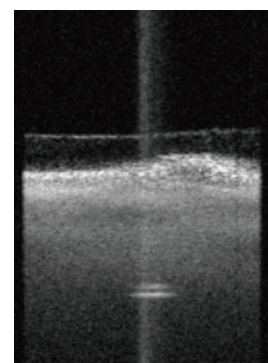
■ IOL & Posterior capsule opacity



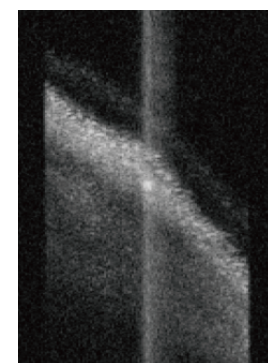
■ Vitreous degeneration



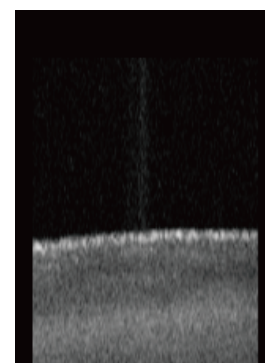
■ Epiretinal membrane & Macular edema



■ RPE elevation

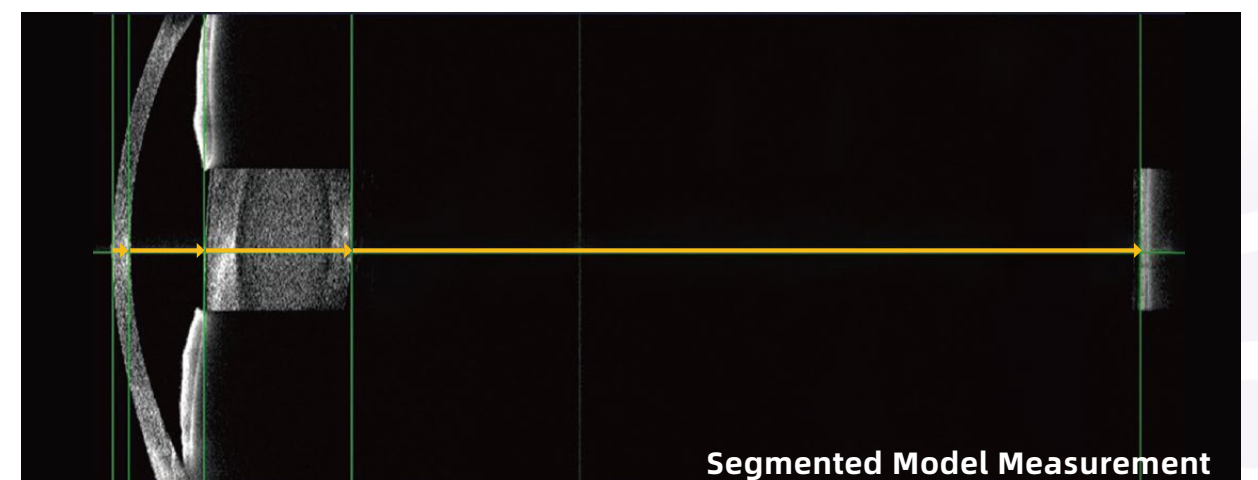


■ Posterior staphyloma



■ Retinal detachment

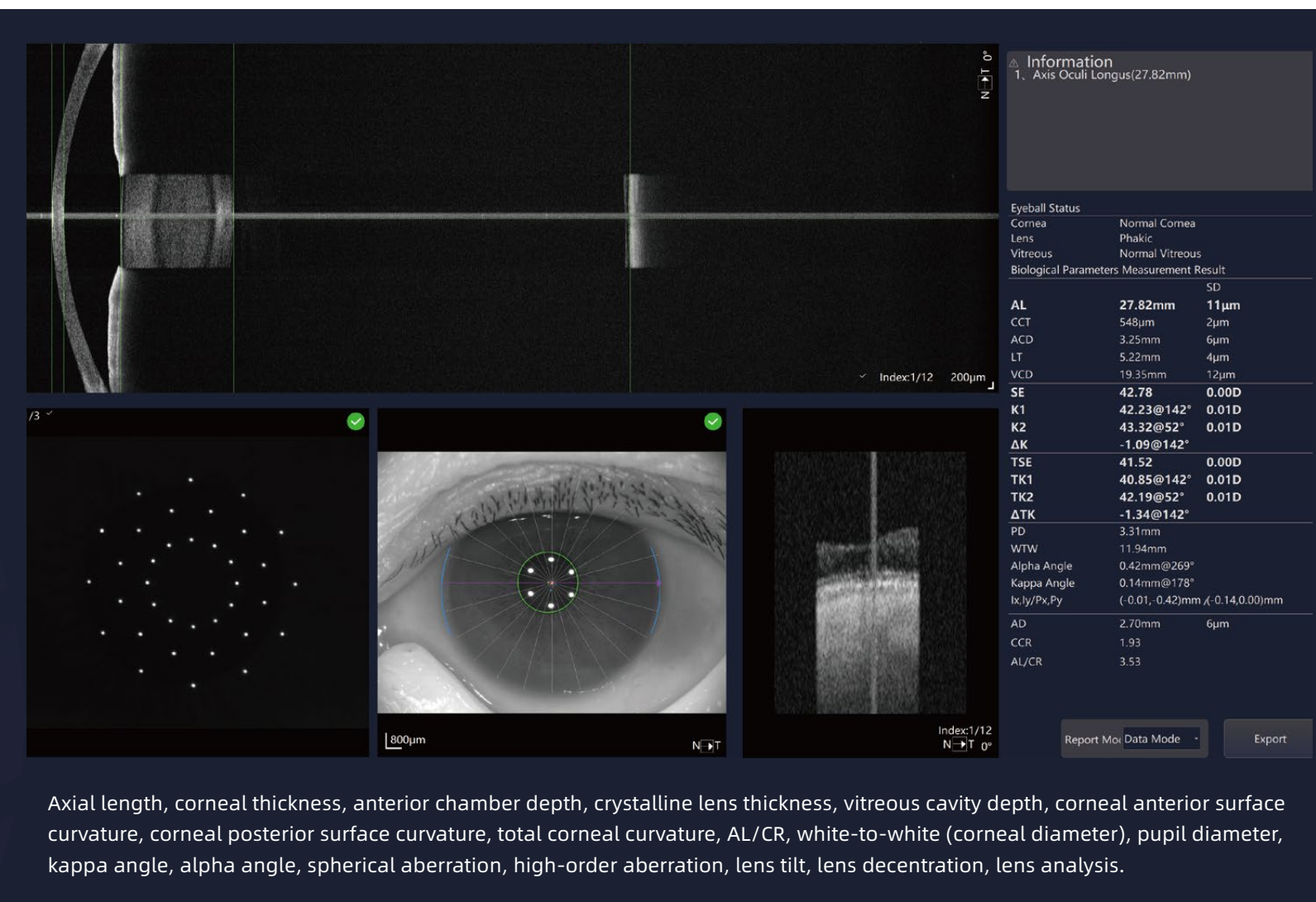
► Dual-model Axial Length



► Accurate Measurement

- Single measurement $\leq 15s$, efficient and accurate
- **Enhanced detection rate—30%** improvement in success rate for complex situations, such as high myopia or silicone oil-tamponade
- Obtain **22+ parameters** in one measurement, empowering the entire cataract surgery process

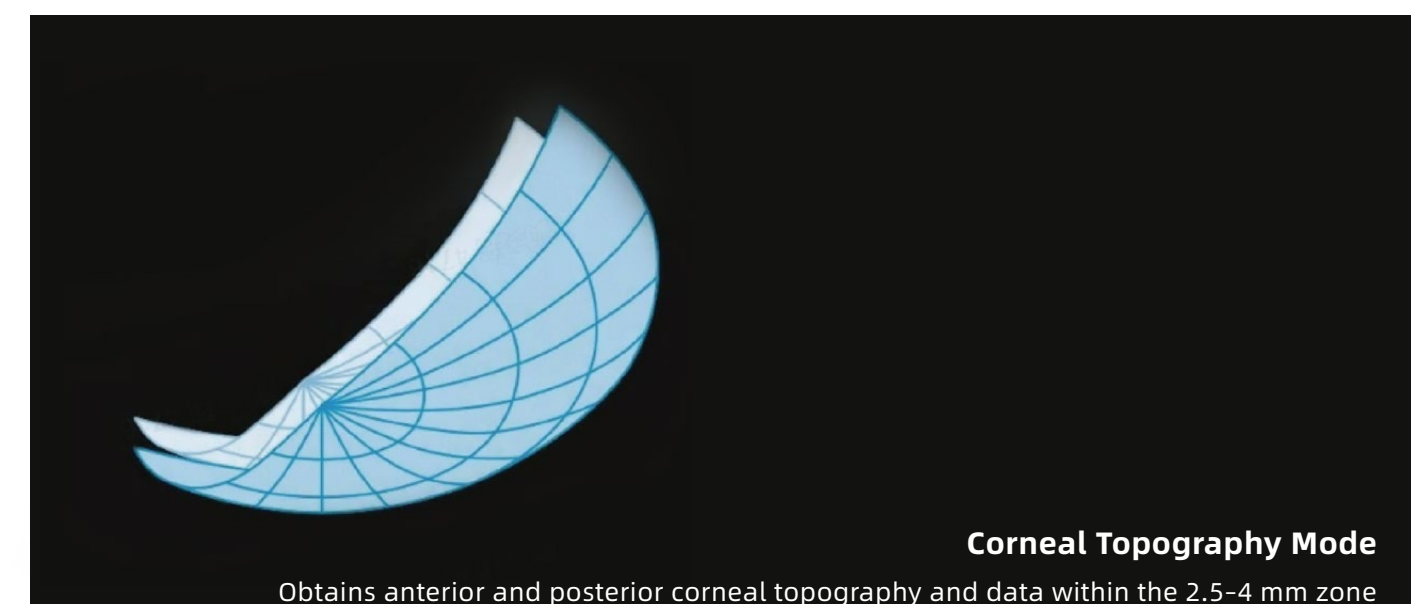
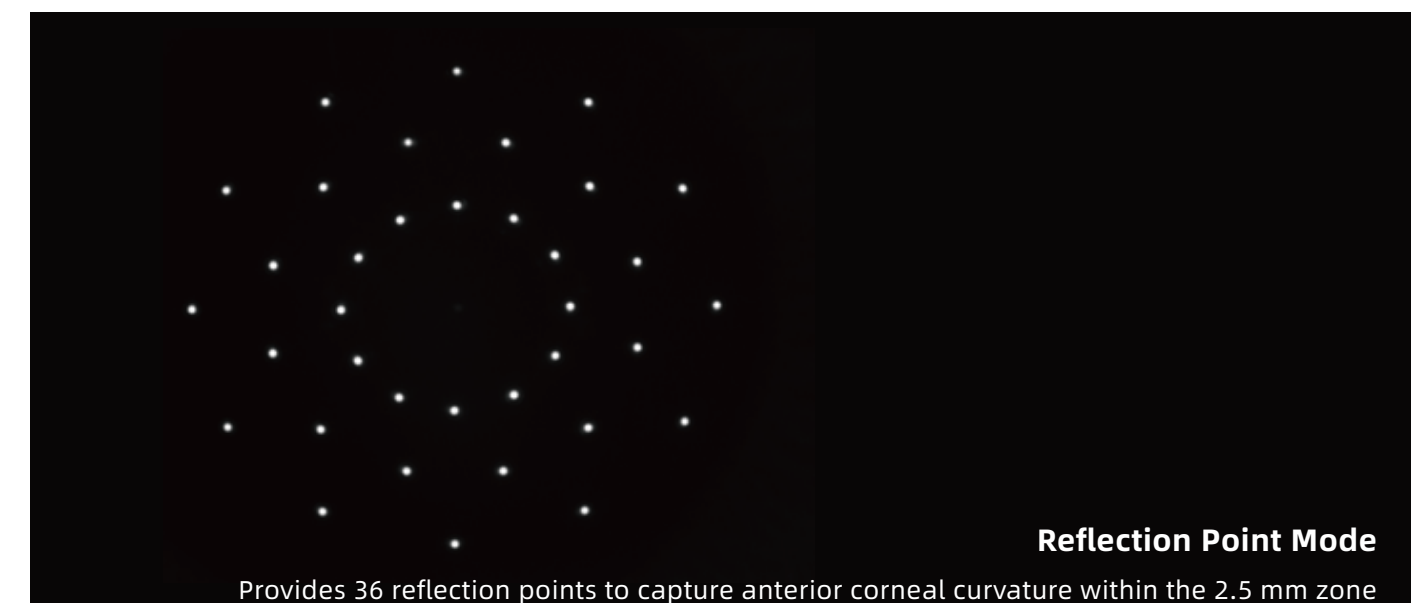
One Click for All Parameters



Excellent Performance

Model	Zalioth
Maximum measurement range	14-44mm
Scan speed	25,000 A-scans/sec
Resolution	15μm
Measurement directions	12 directions

Dual-Mode Keratometry



► Accurate Calculation

- Built-in **KANE** and **EVO** full-function formulas
- Better support for refractive cataract IOL calculations
- Supports keratoconus IOL calculations

New Generation of IOL Calculation Formulas

• Kane (formula combination)

Kane (for normal eyes)

Kane toric (toric IOL)

Kane keratoconus (keratoconus)

Kane keratoconus Toric (toric IOL for keratoconus)

• EVO (formula combination)

EVO (for normal eyes)

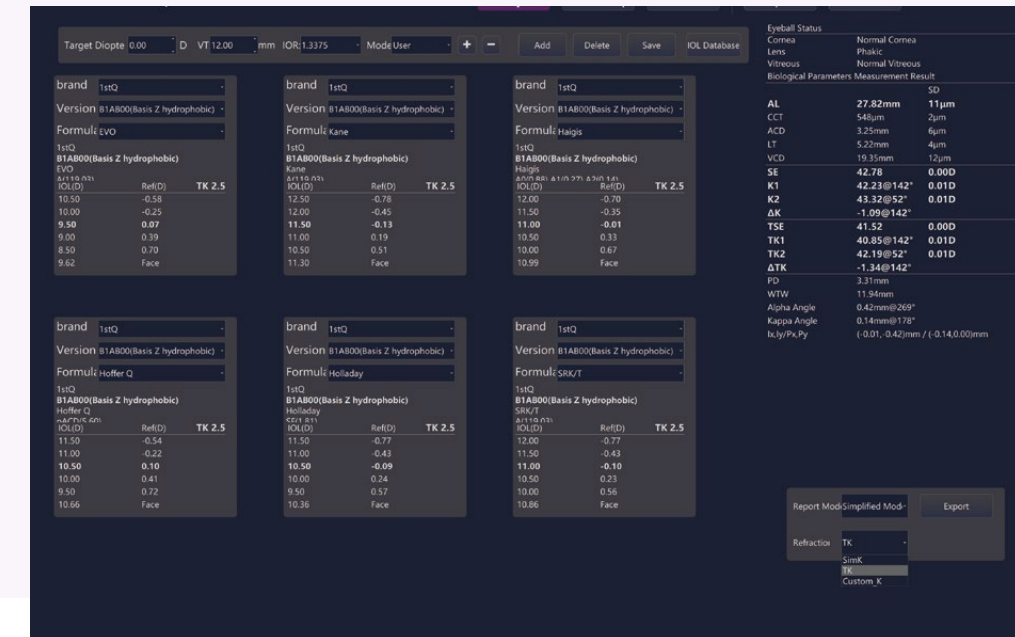
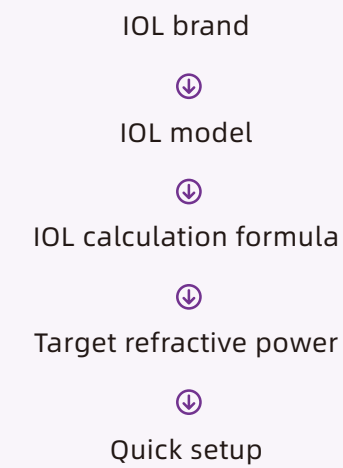
EVO-Toric (toric IOL)

EVO-LVC (post-refractive surgery)

Standard IOL Power Calculation Formulas

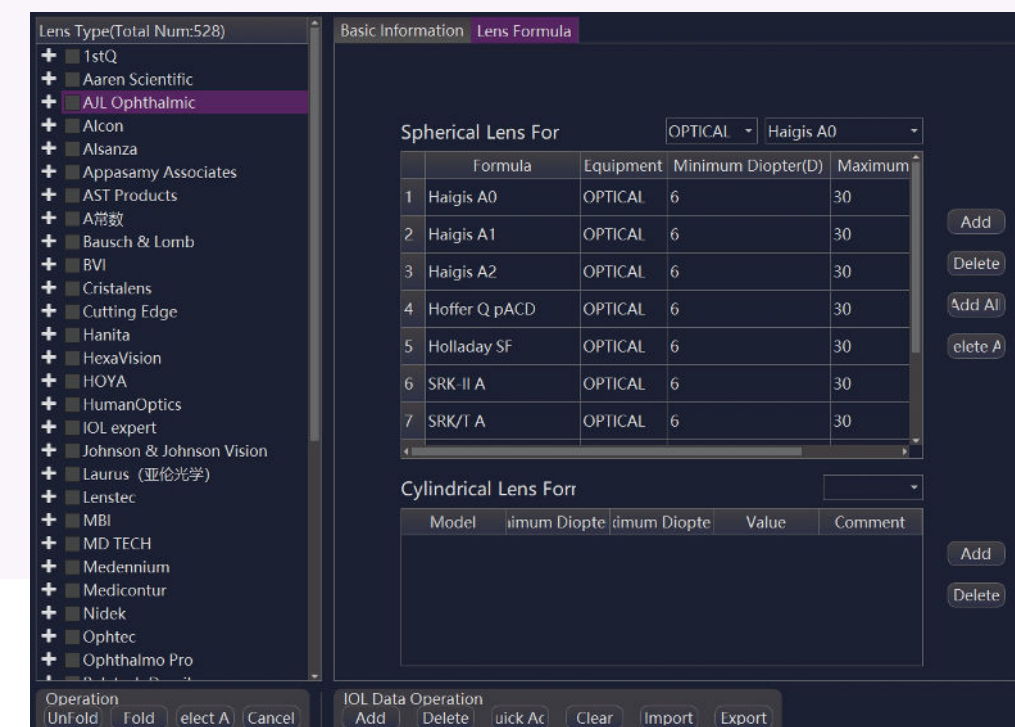
• SRK II • SRK T • Hoffer Q • Holladay • Haigis

Customized IOL Calculation Template



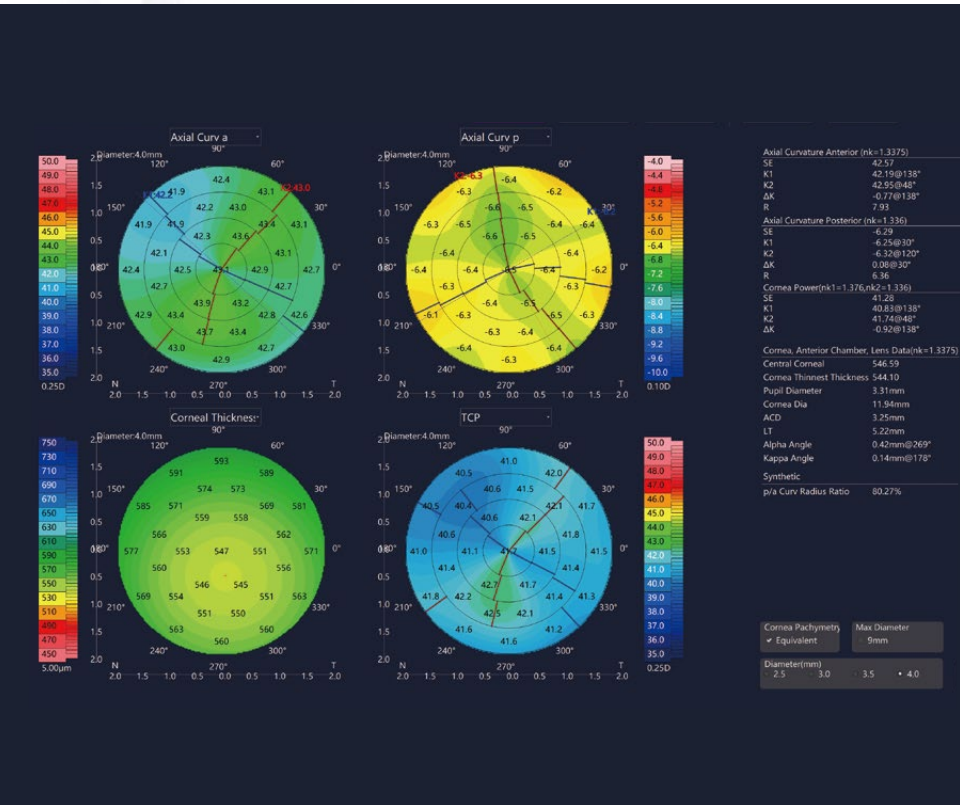
IOL Database

- Supports manual addition of IOLs
- Supports personalized IOL A-constants
- Supports optimization of IOL A-constants



► Precise Pre-Surgery Planning

One-Stop Solution for Refractive Cataract Surgery



Corneal Topography

Anterior corneal surface
Posterior corneal surface
Total cornea

Adjustable in different ranges

Displays numerical data

B/F ratio

Optimized IOL Selection

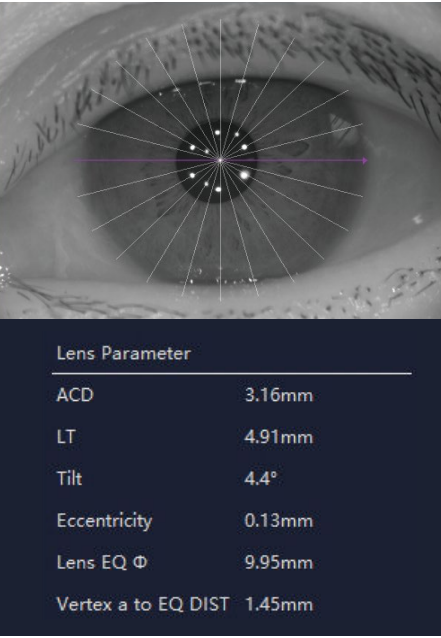
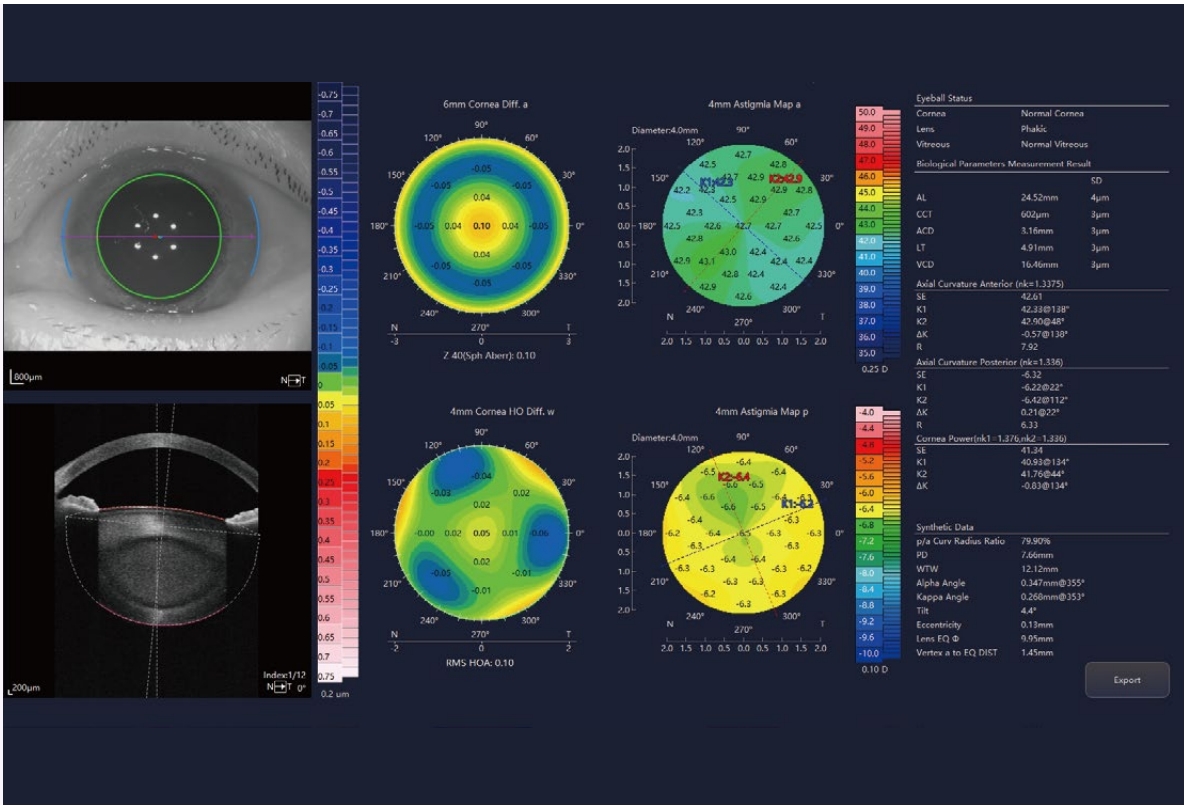
Pupil diameter

Angle kappa / Angle alpha

Corneal anterior surface
aberration
(spherical aberration / total
higher-order aberrations)

B/F ratio

Lens tilt / lens decentration



Lens Analysis

Lens tilt

Lens decentration

12-Direction AS-OCT images

Irregular Astigmatism Analysis

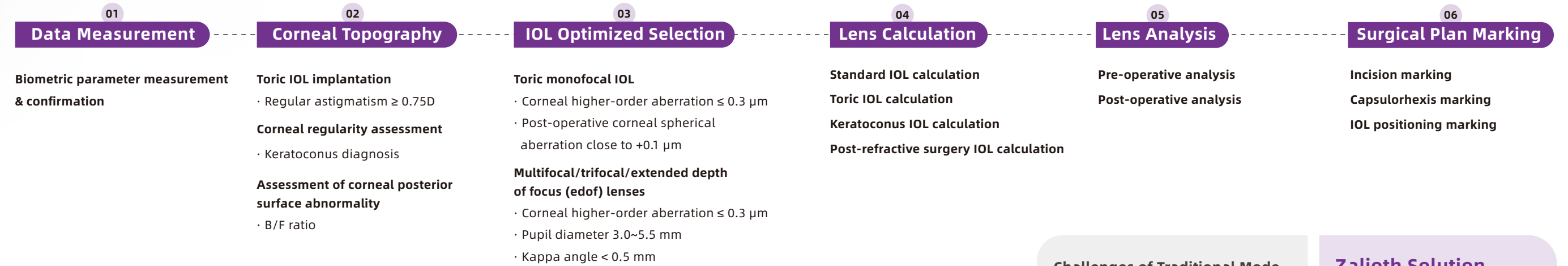
Curvature mapping of
anterior surface and total
cornea

User definable regional
keratometry

Minimum 0.5mm radius for
data extraction



► Pre-Cataract Surgery Workflow in 15 Seconds



* Reference: China Expert Consensus on Clinical Application of Multifocal Intraocular Lens (2019)

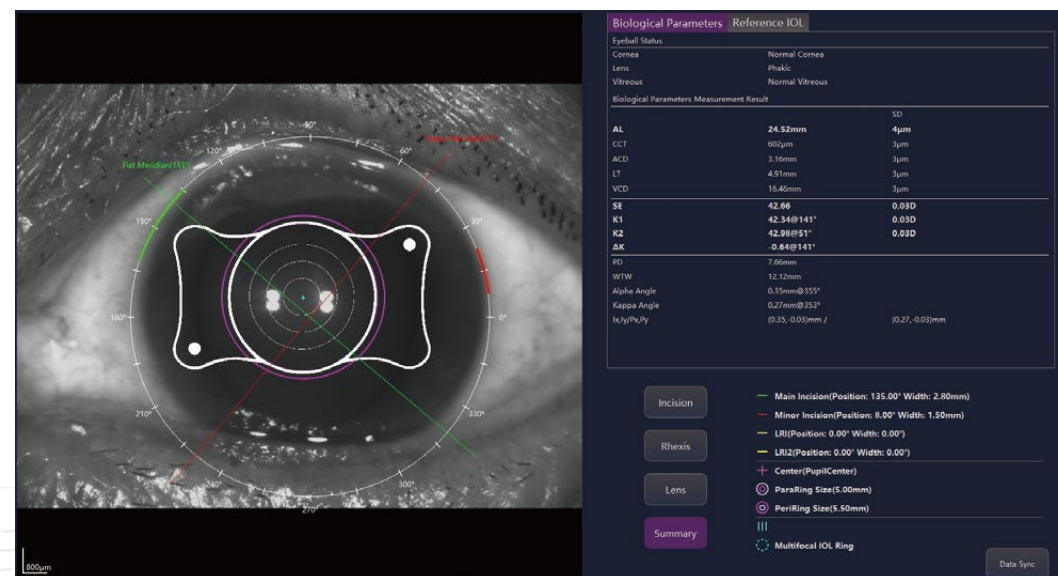
Challenges of Traditional Mode

Multiple devices for measurements
Dispersed data collection
Time-consuming in manual processes

Zalioth Solution

One-stop examination
More data references
Post-operative quality Guaranteed

TowardPi PiView System, Multi-Modal Integration



Precision Innovation of High-end Ophthalmic Equipment