

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	

TowardPi Medical Technology Ltd.

Website: www.towardpi.com

E-mail: info@towardpi.com

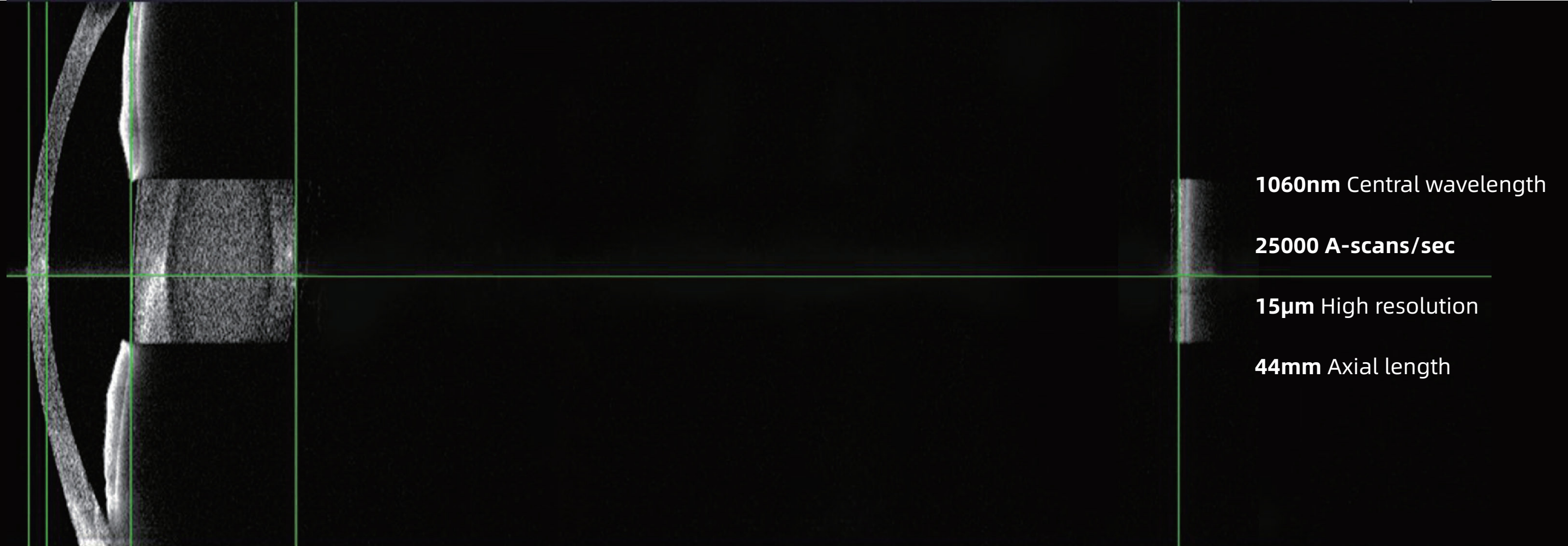


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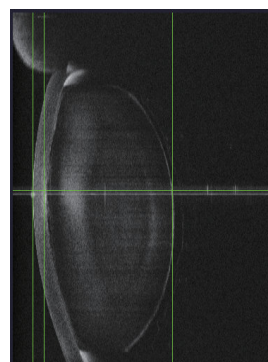


-Zalioth- Swept-Source Optical Biometer

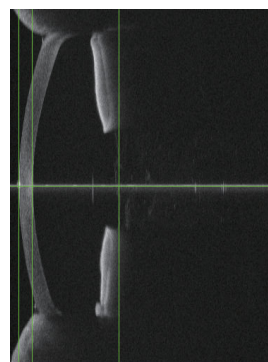
Innovative Functions | Dynamic Panoramic Axial Imaging | Comprehensive Performance



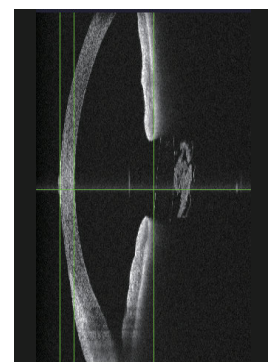
► Dynamic Panoramic Visualization Visualize the True Axial Length



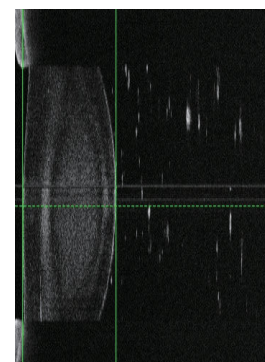
■ Lens dislocation



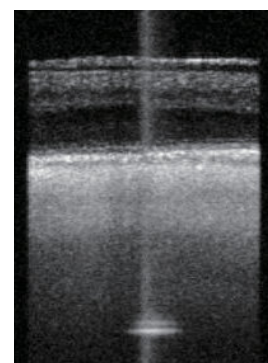
■ Aphakic eye



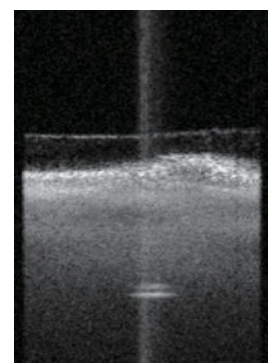
■ IOL & Posterior capsule opacity



■ Vitreous degeneration



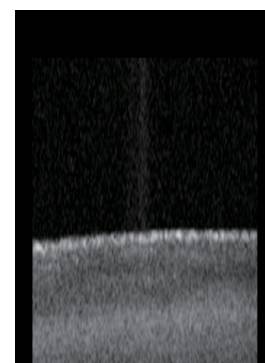
■ Epiretinal membrane & Macular edema



■ RPE elevation

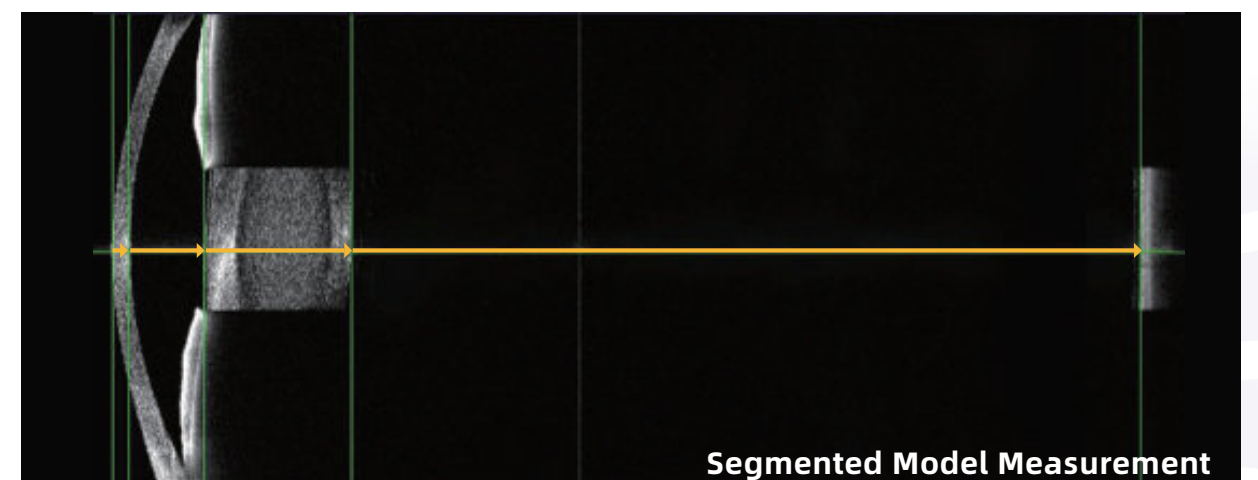


■ Posterior staphyloma



■ Retinal detachment

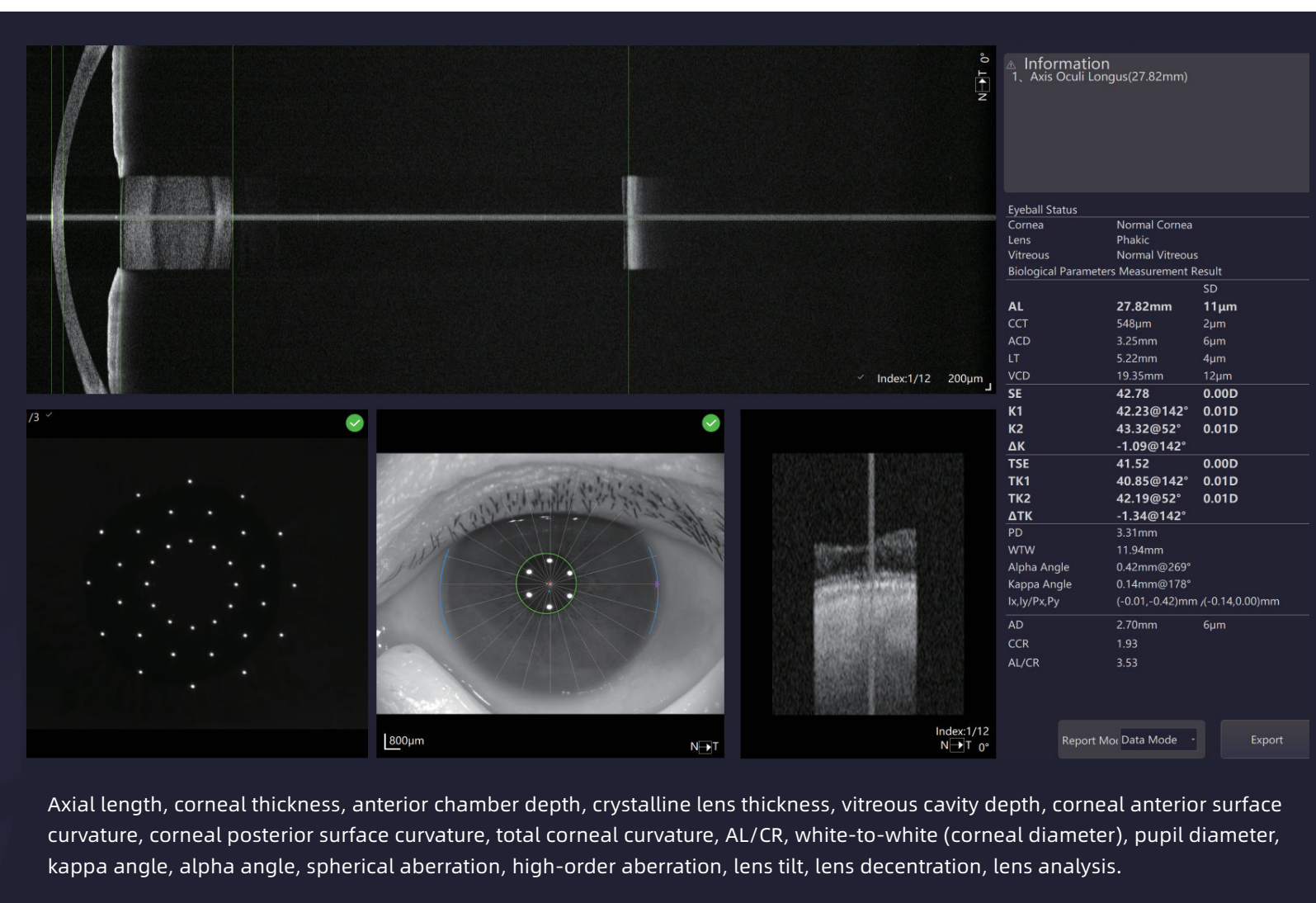
► Dual-model Axial Length



► 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

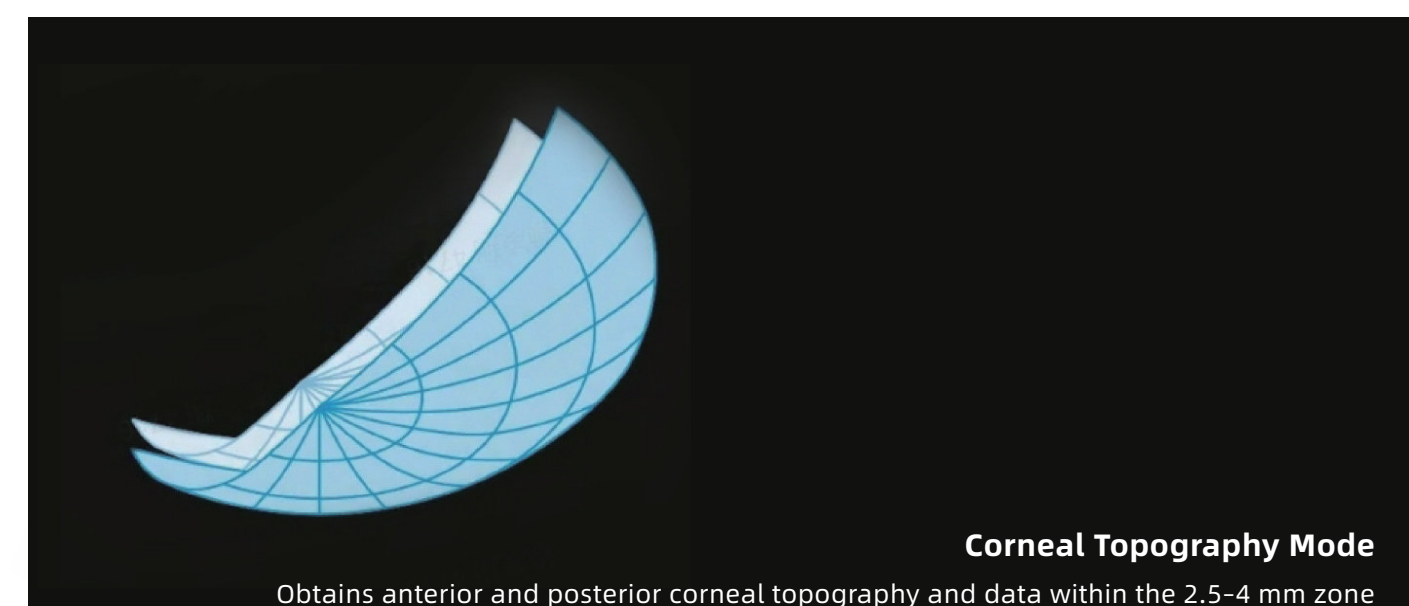
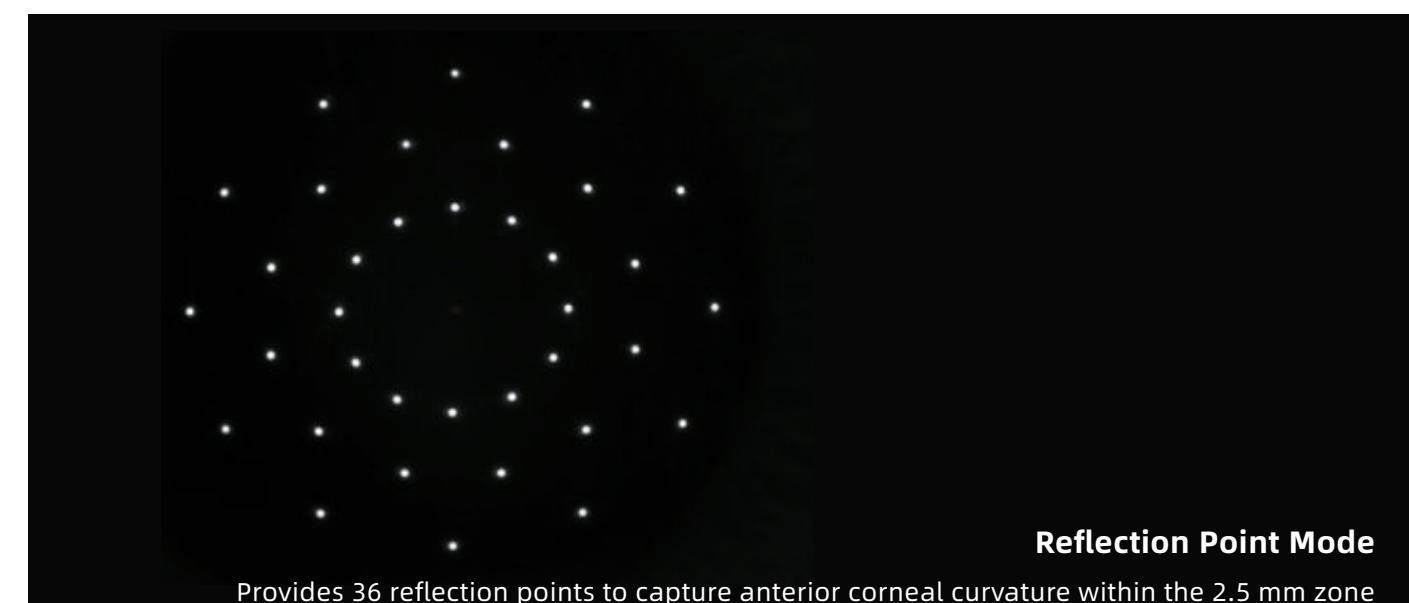
One Click for All Parameters



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)

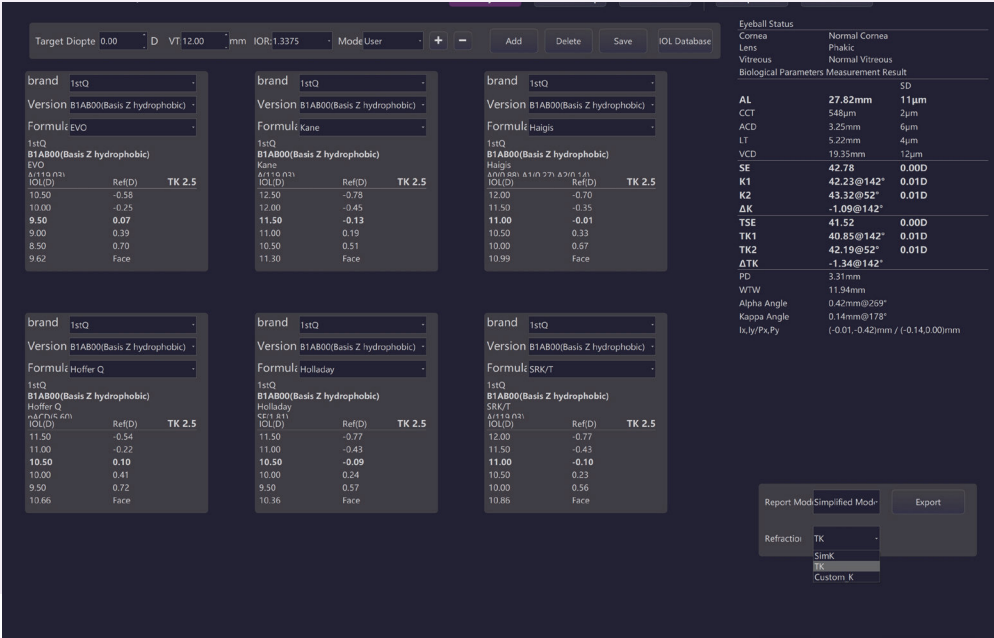
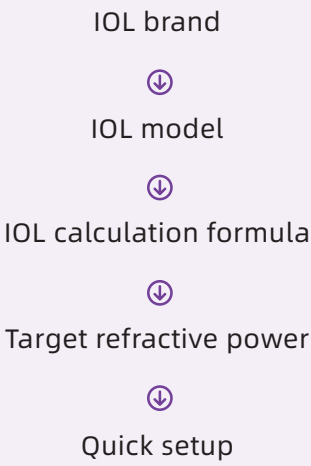
- **EVO (formula combination)**

- EVO (for normal eyes)
 - EVO-Toric (toric IOL)
 - EVO-LVC (post-refractive surgery)

Standard IOL Power Calculation Formulas

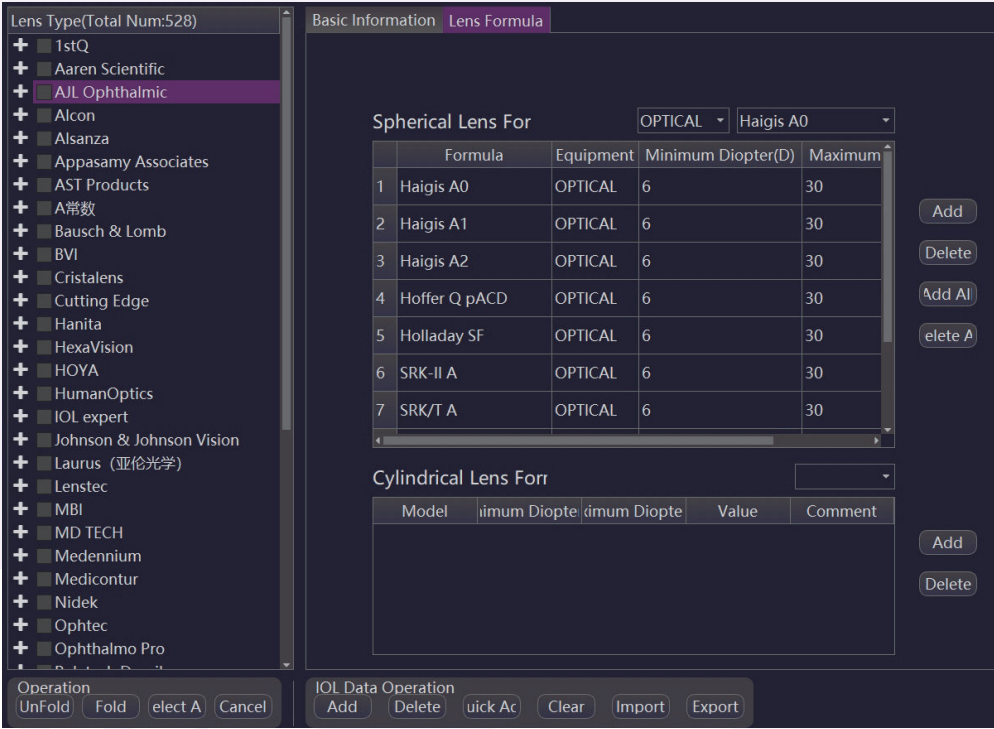
- SRK II • SRK T • Hoffer Q • Holladay • Haigis

Customized IOL Calculation Template



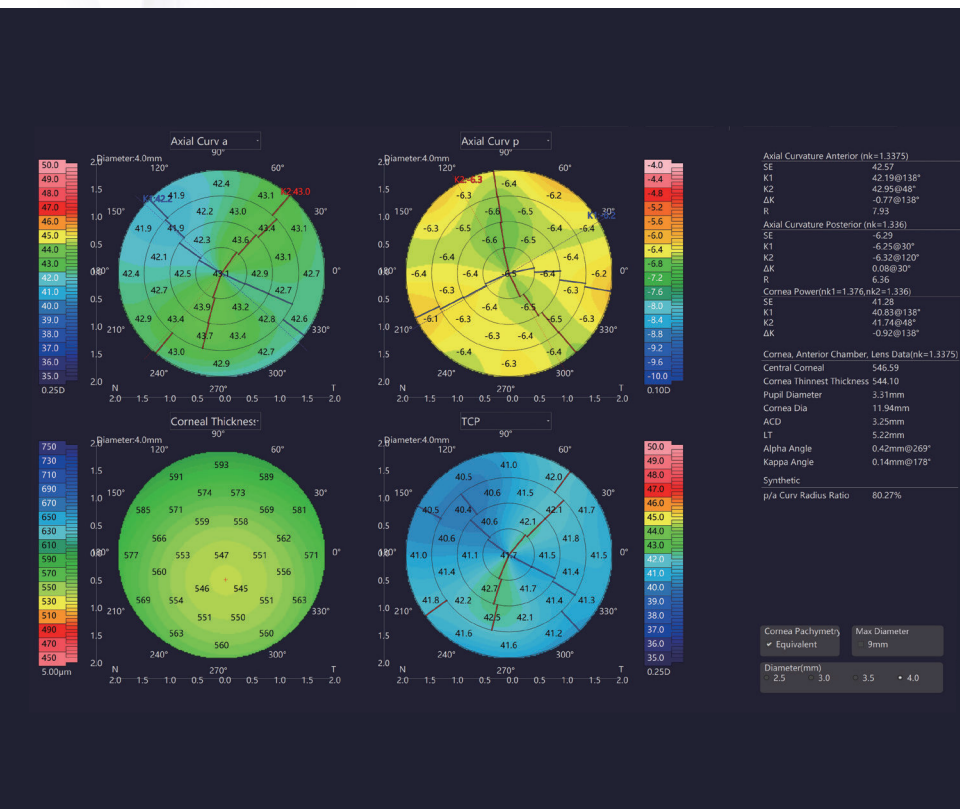
IOL Database

- 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

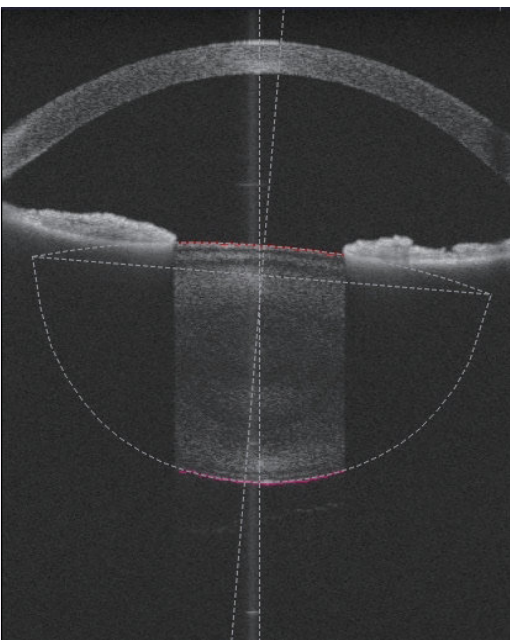
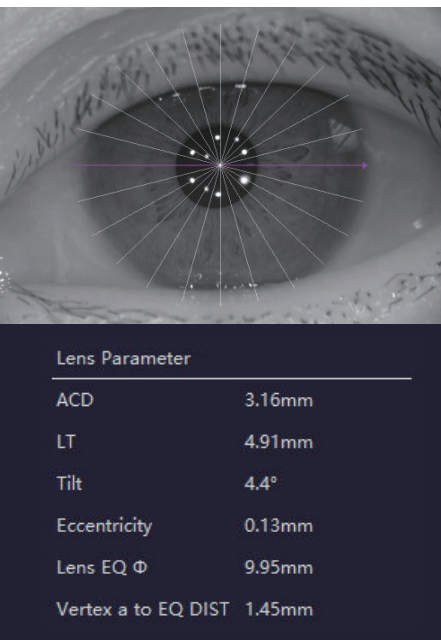
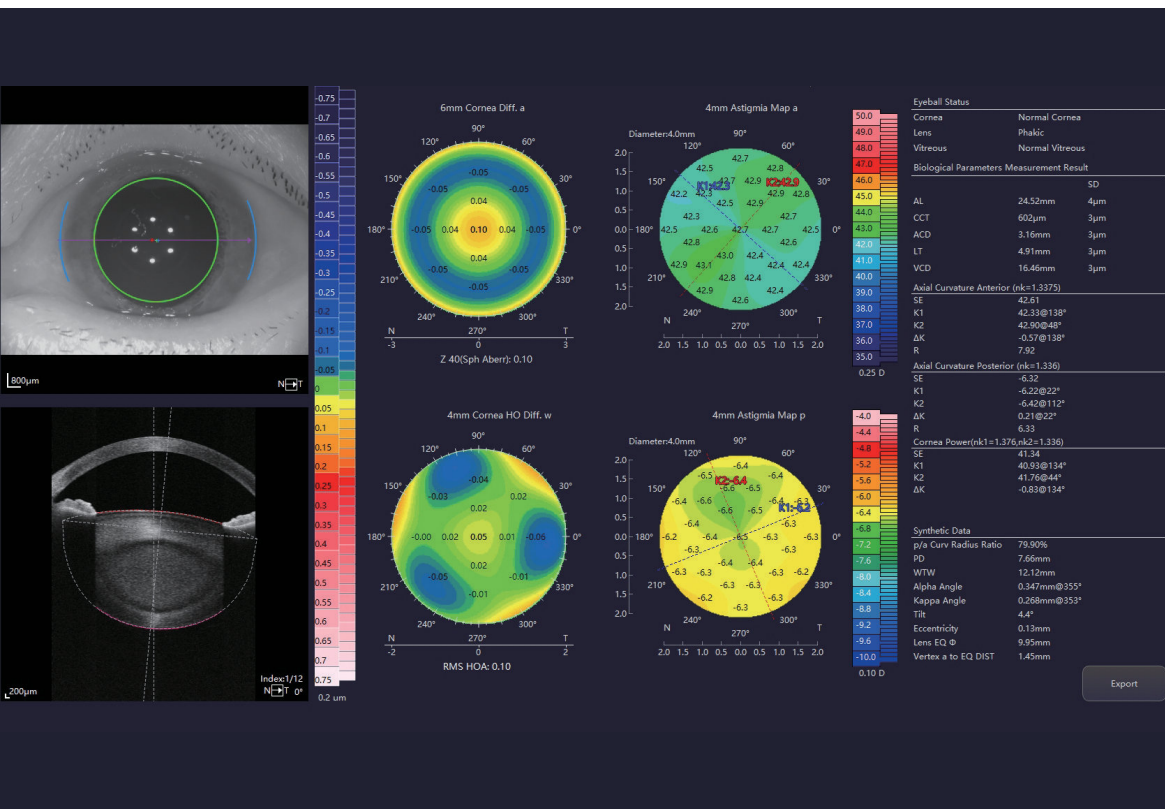
Pupil diameter

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

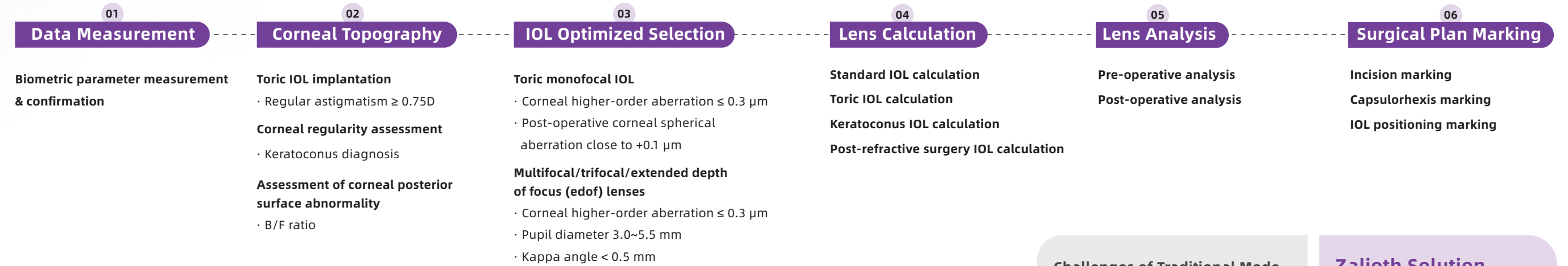
Curvature mapping of
anterior surface and total
cornea

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)

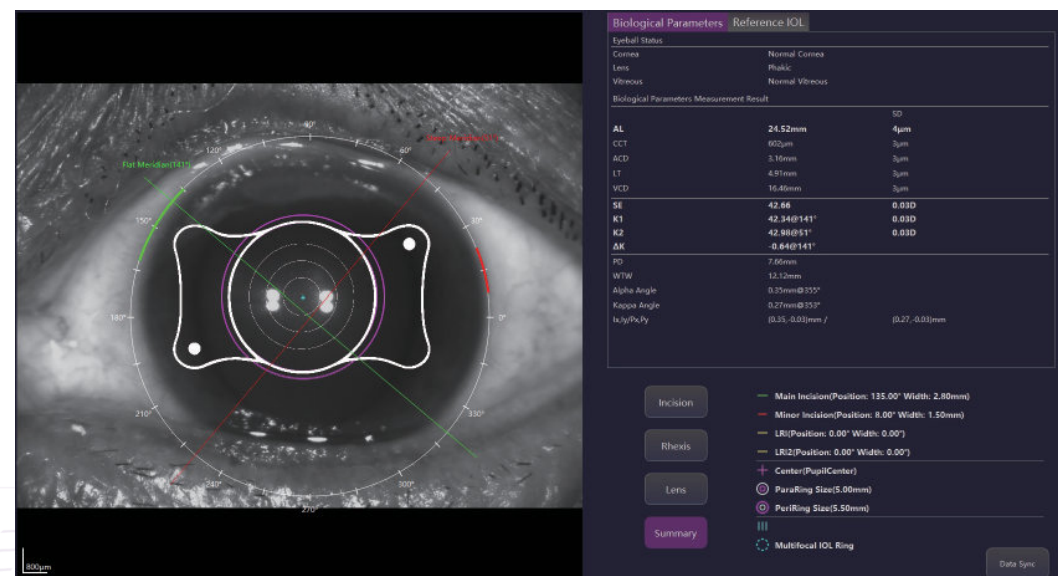
Challenges of Traditional Mode

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