

CIRRUS HD-OCT Version 8

Advancing Smart OCT



Anterior Segment

New Anterior Segment Premier Module



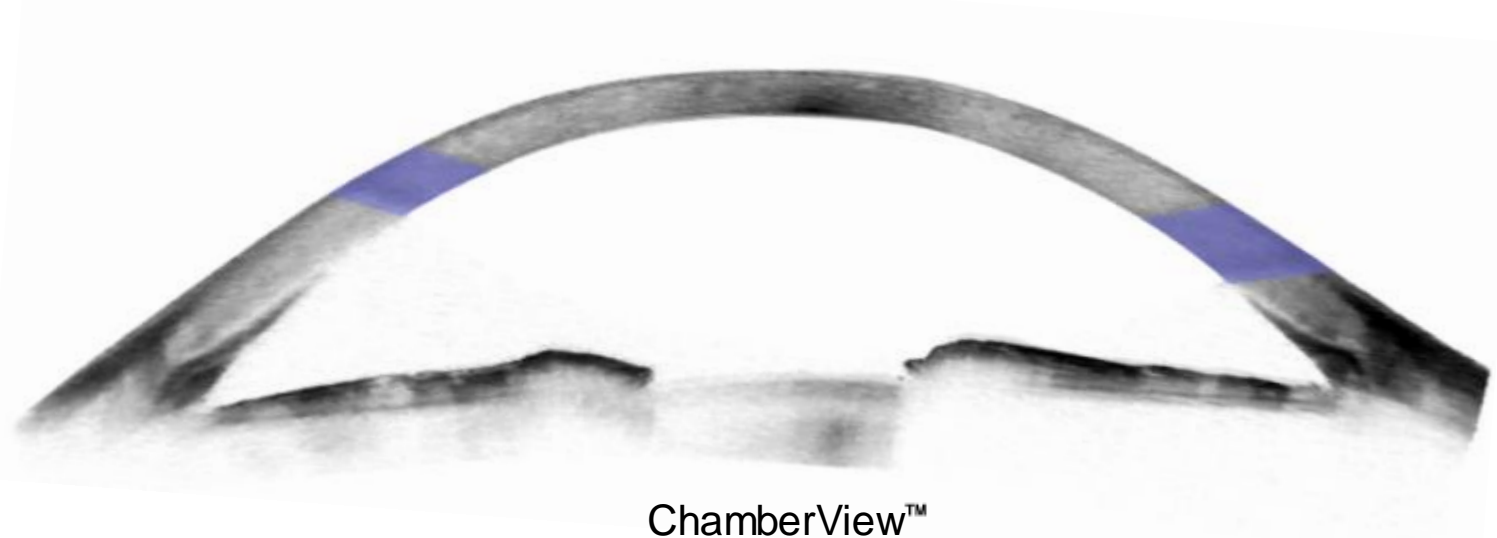
Available for Models 5000 and 500

Anterior Segment Premier Module

Glaucoma, Cornea, and Refractive Applications



- Comprehensive anterior segment imaging with new magnetic external lenses
- Quick switching to anterior segment scanning
- First-in-class full anterior chamber imaging from a retinal OCT

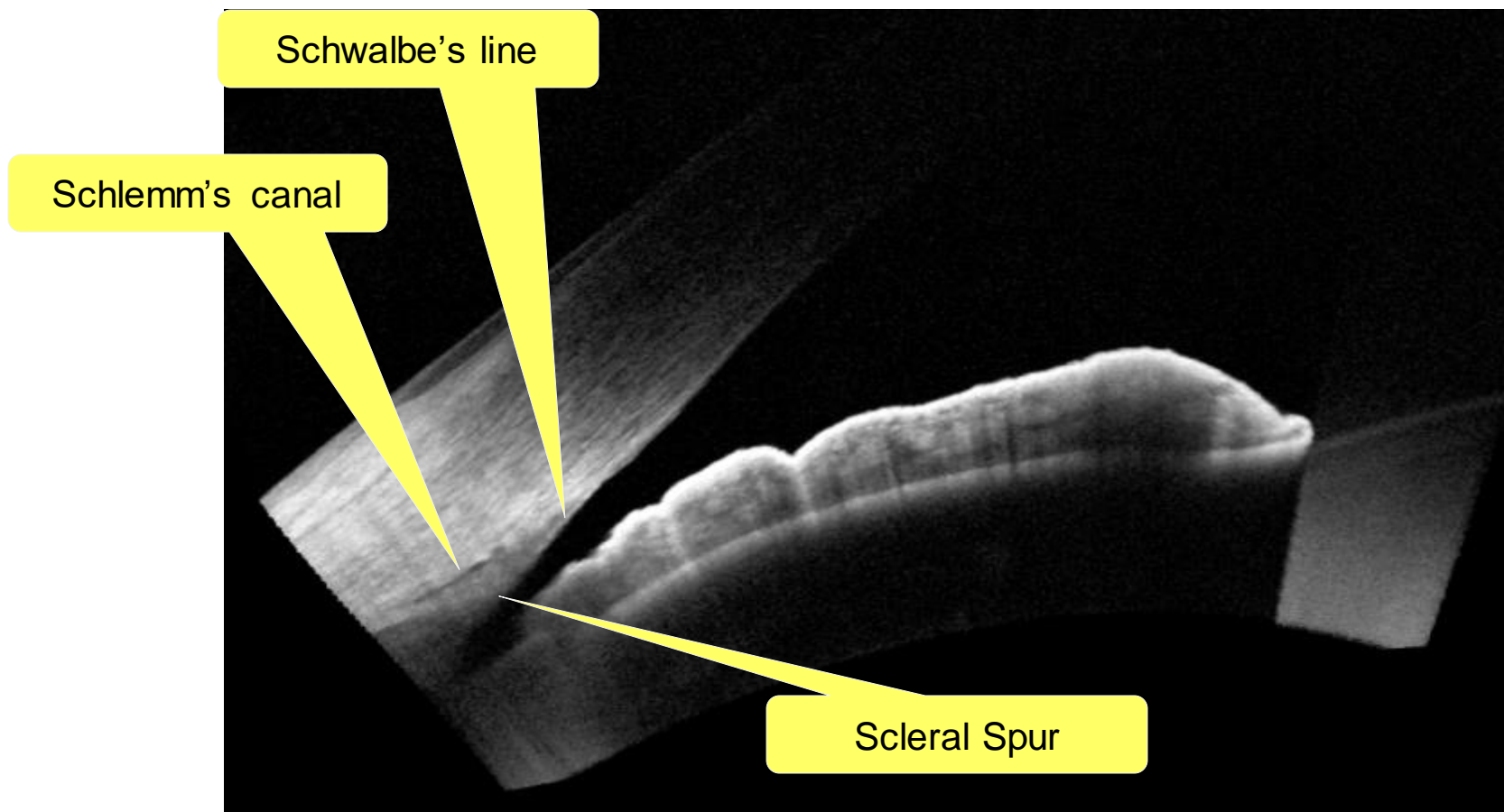


Visualize Critical Angle Structures

HD Angle Scan (6 mm)



- The scleral spur, Schlemm's canal, and Schwalbe's line can clearly be identified

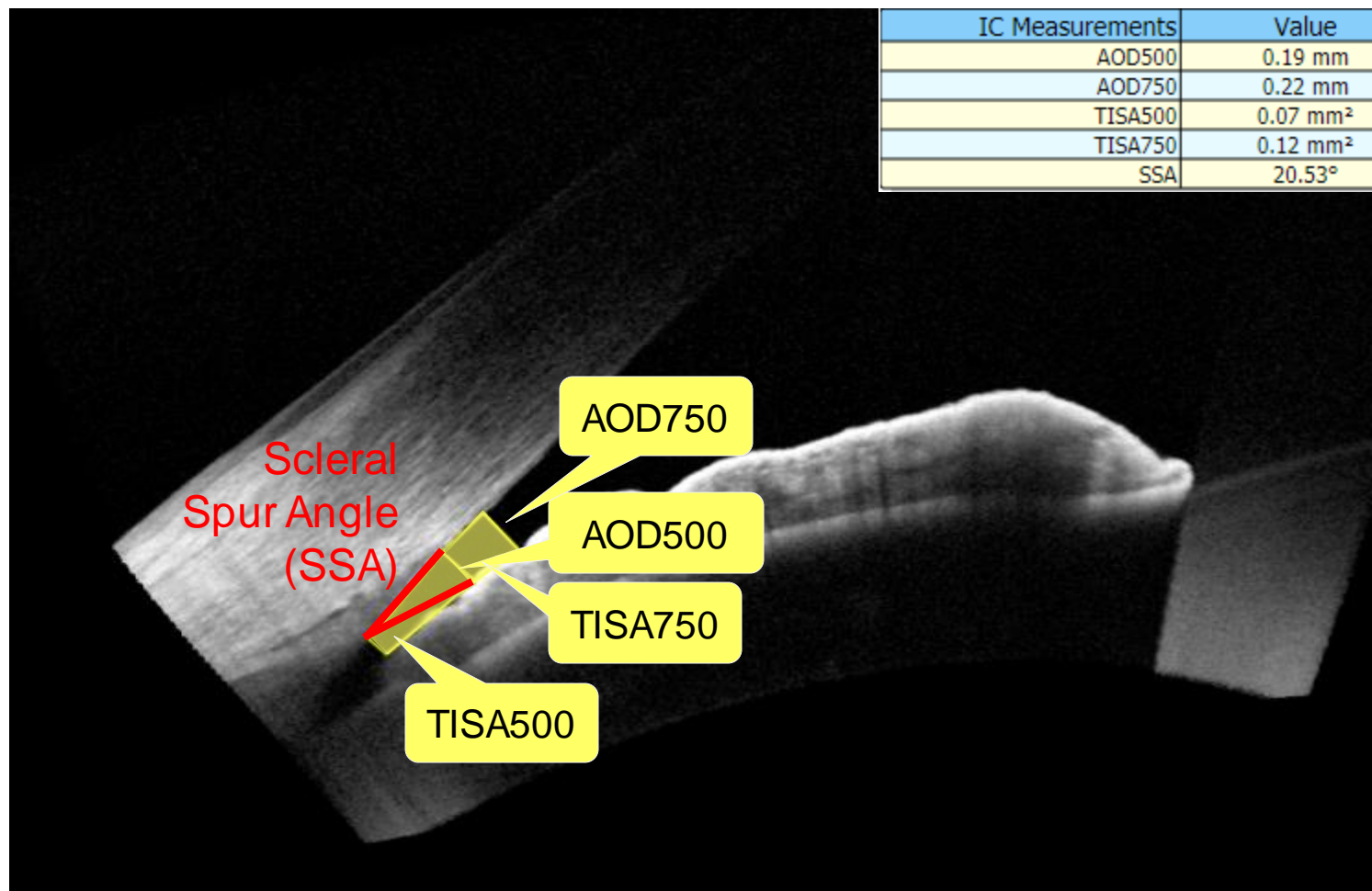


OCT Goniometry

Objective Measurement Tools to Quantify Angle Opening

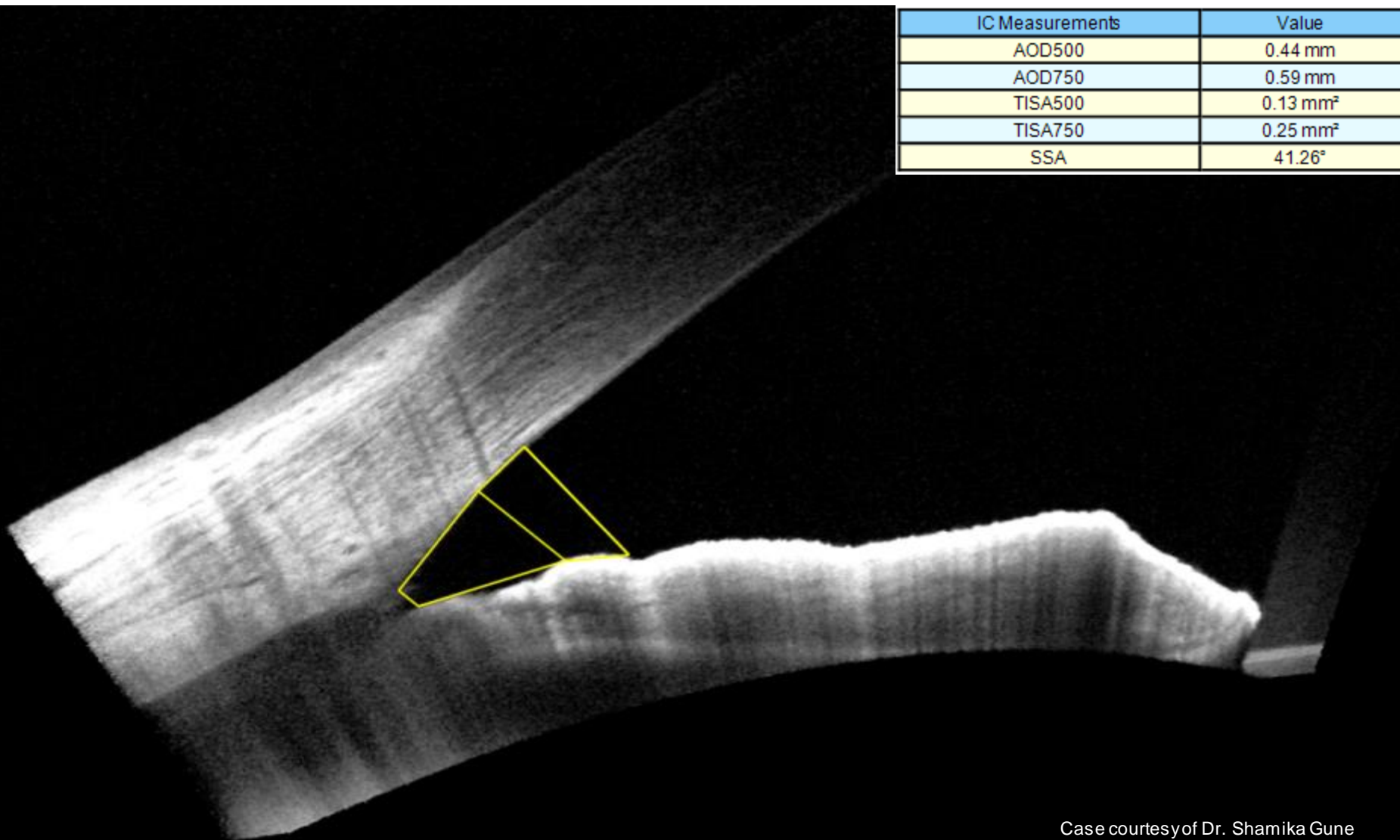


- New CIRRUS OCT Goniometry supplements gonioscopy to help objectively quantify angle anomalies with established measurement parameters



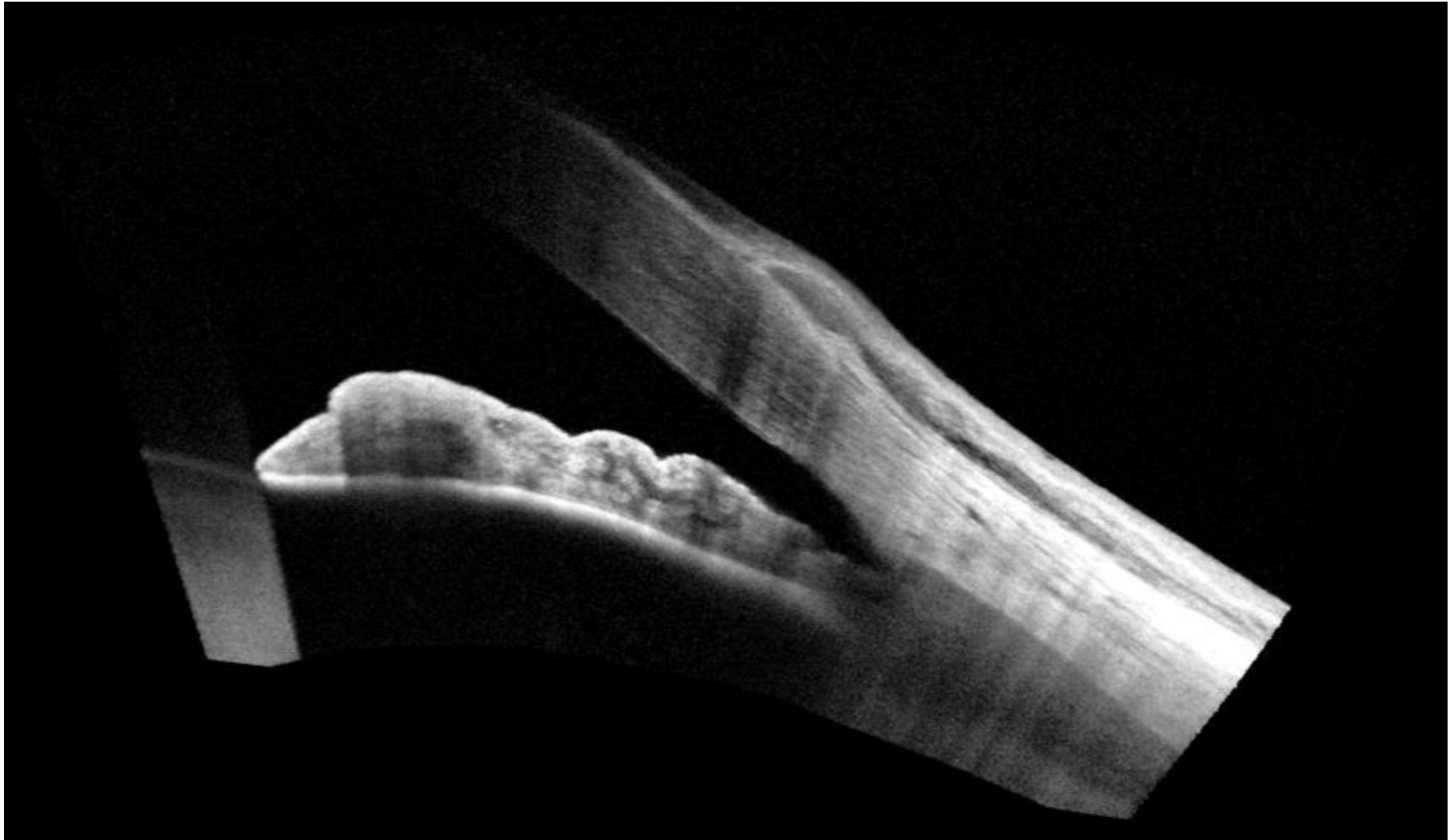
HD Angle Scan

Normal Cornea



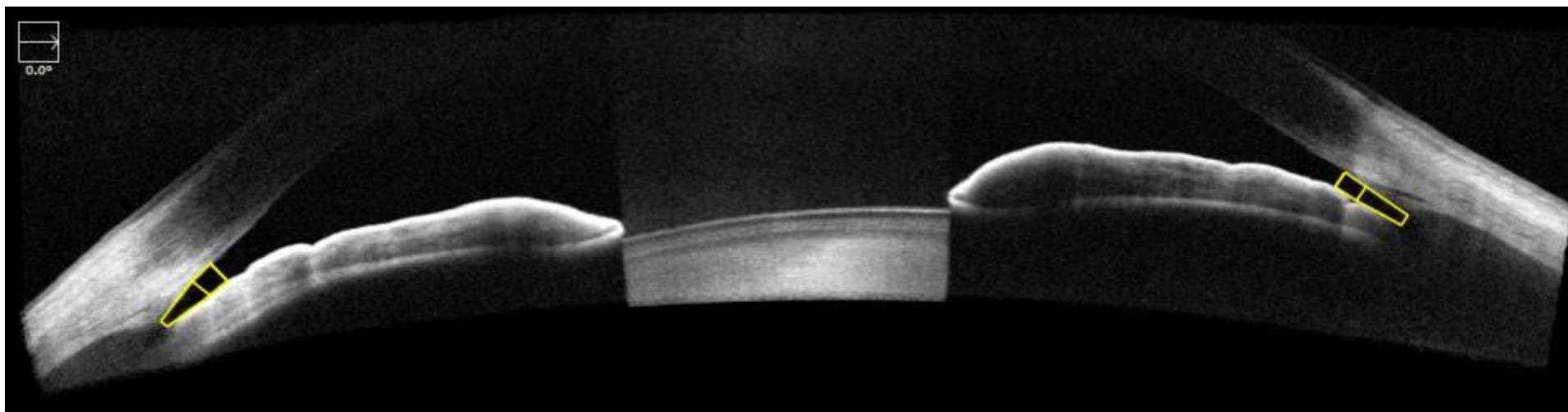
HD Angle Scan

Narrow Angle with Pterygium



Dual angle assessment for angle closure glaucoma

Wide Angle to Angle Scan (15.5 mm)



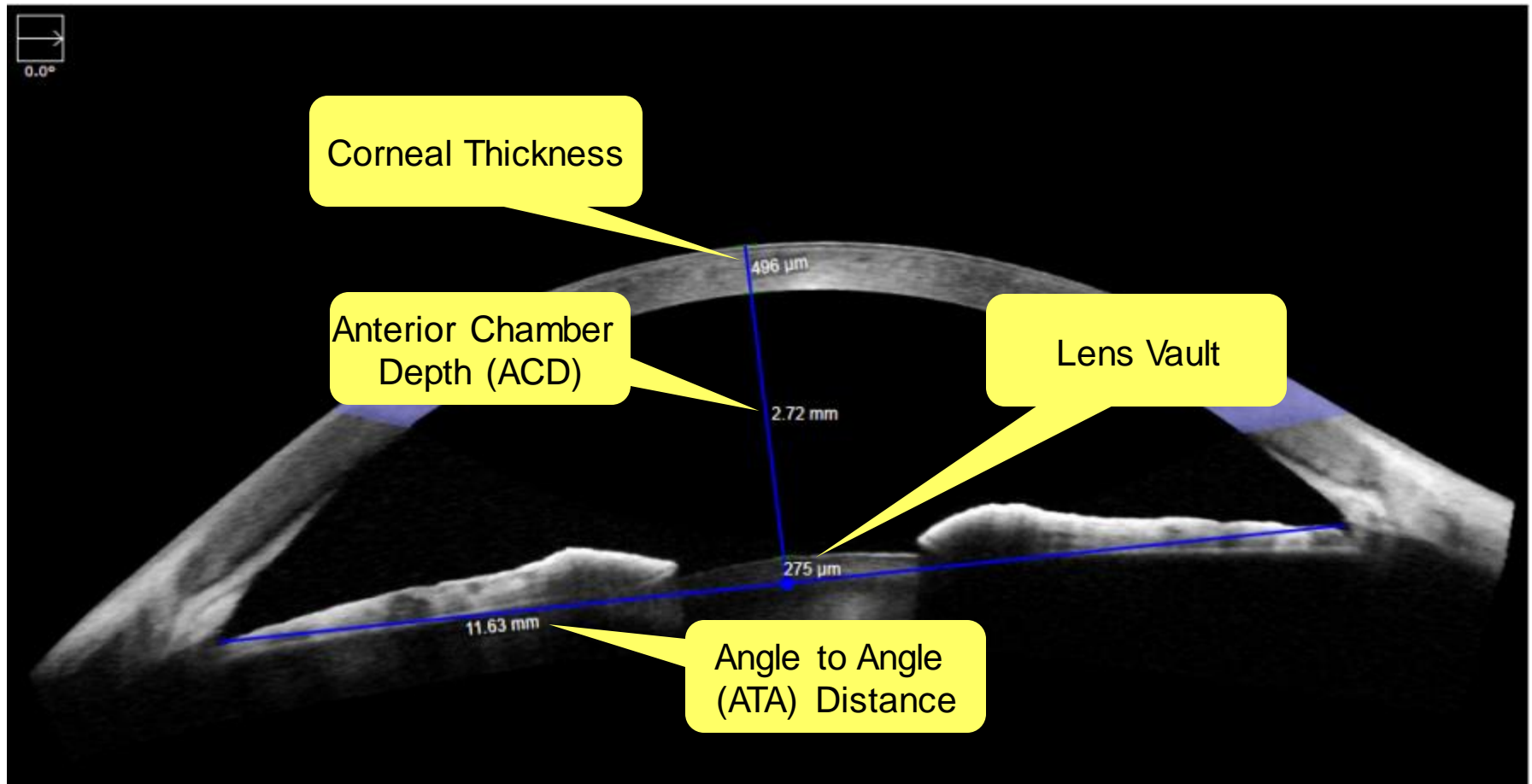
IC Measurements	Left	Right
AOD500	0.23 mm	0.17 mm
AOD750	0.25 mm	0.17 mm
TISA500	0.08 mm ²	0.07 mm ²
TISA750	0.14 mm ²	0.11 mm ²
SSA	24.61°	18.36°

The first full anterior chamber view from a retinal OCT

ChamberView™ (15.5 mm x 5.8 mm)



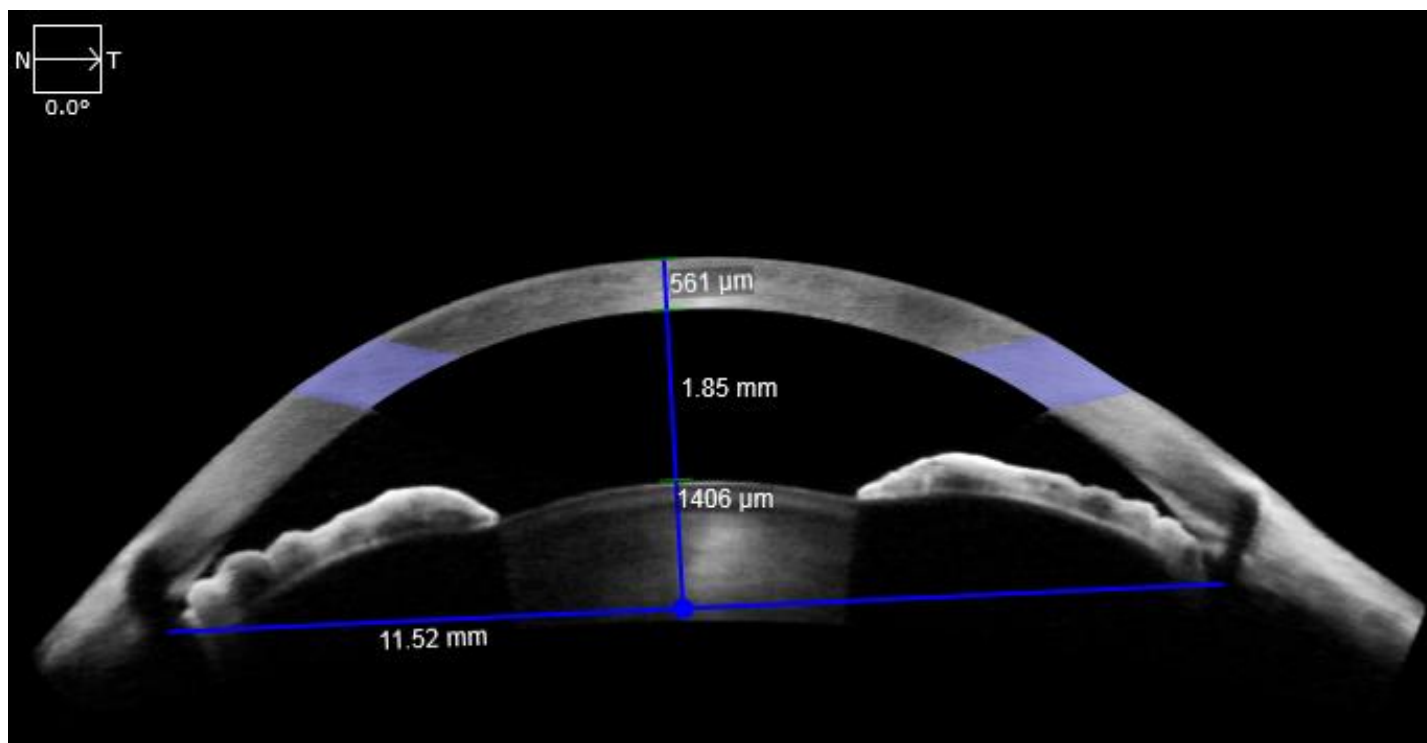
Anterior Chamber Depth and Lens Vault manual measurements for anterior chamber evaluation and angle closure glaucoma risk assessment



ChamberView Helps Assess Risk of Angle Closure Glaucoma



- Study* by Tin Aung, MD demonstrated that angle closure patients had a mean lens vault of 901 μm vs. 316 μm for controls
- Increased lens vault increases risk of angle closure by 48 times compared to a smaller vault



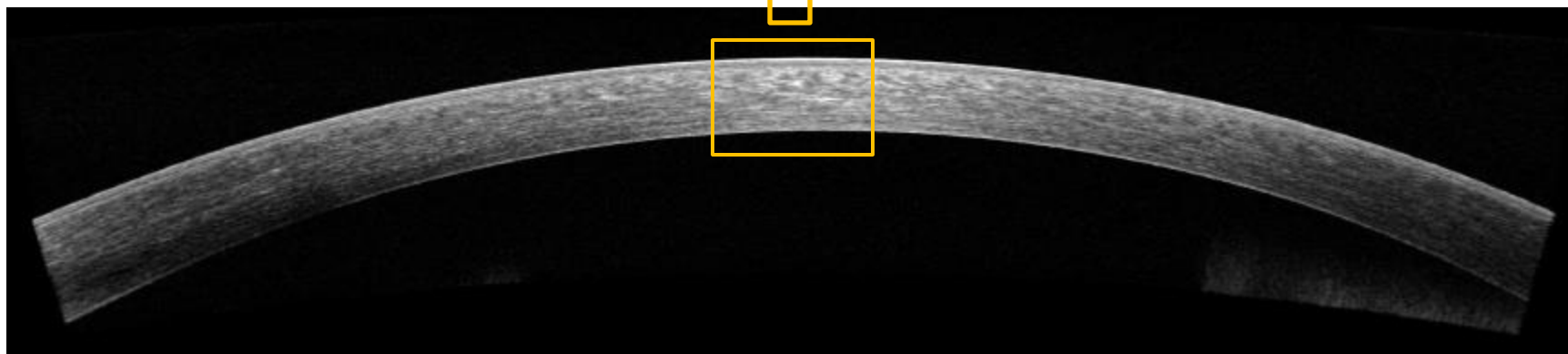
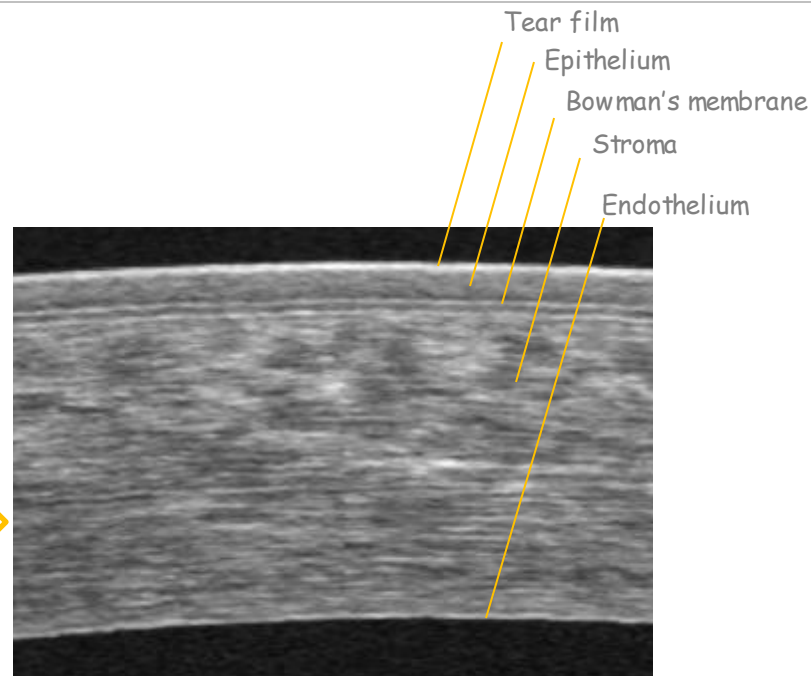
* Source: Ophthalmology. 2011;118(3):474-479.

Assess the Cornea in Detail

HD Cornea Scan (9 mm)

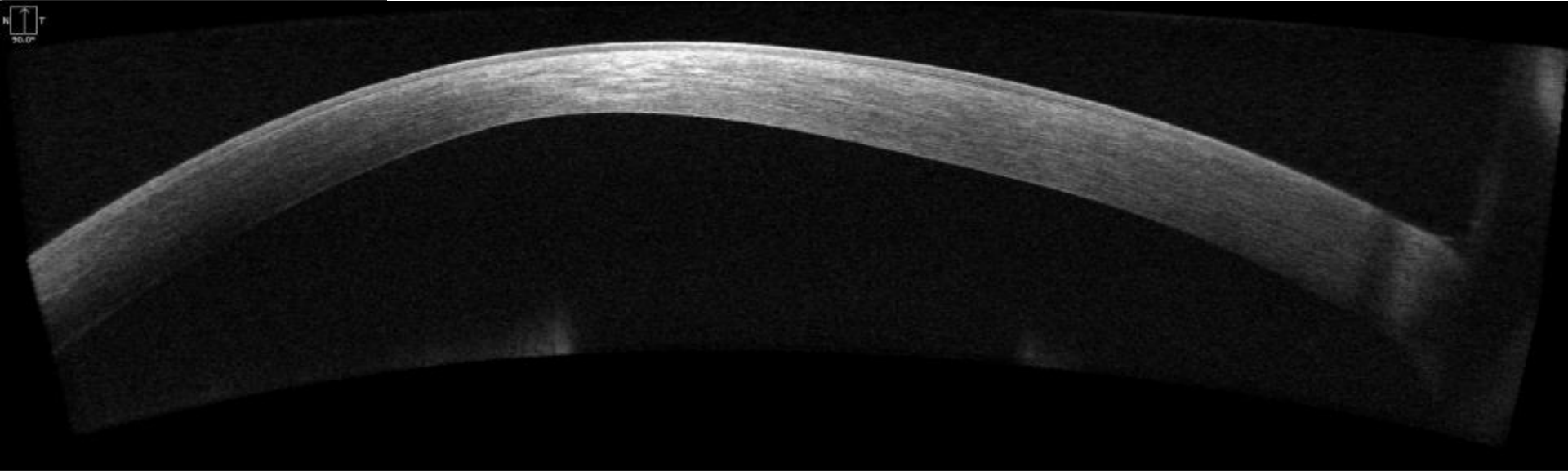
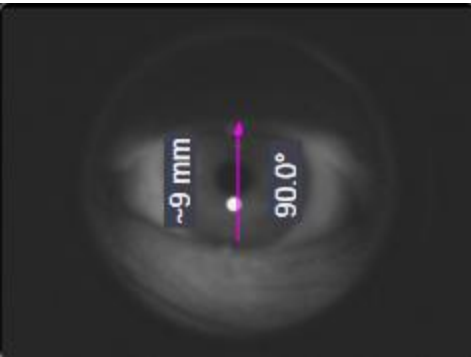


- High-definition view for documentation and assessment of corneal pathology
- Easily visualize all major corneal layers



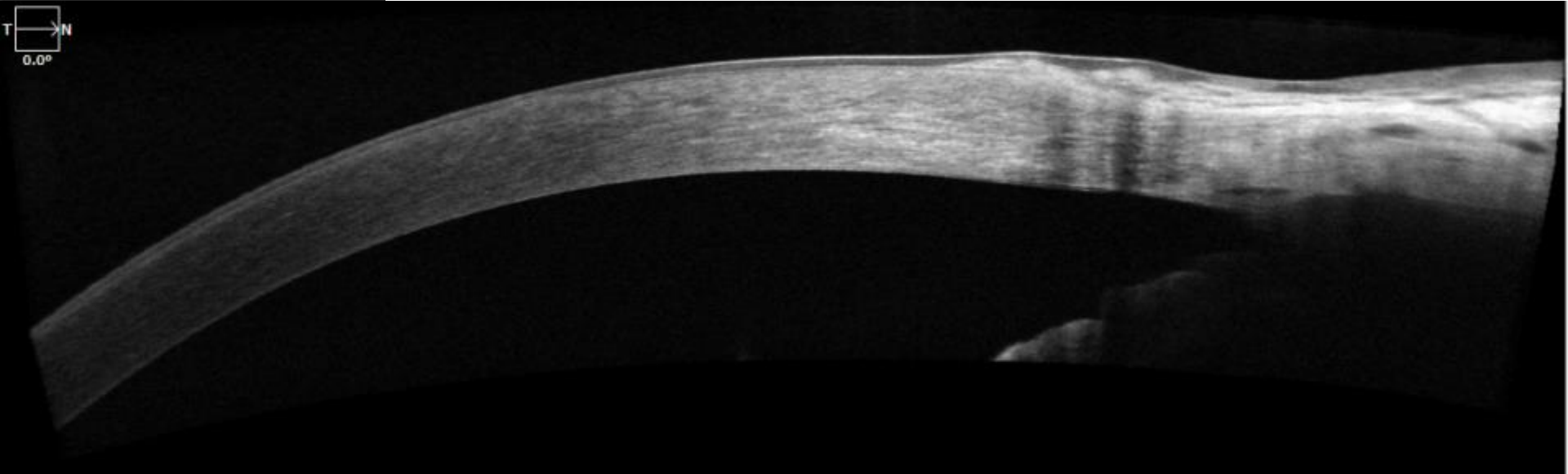
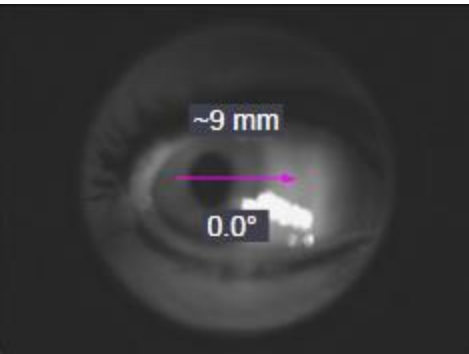
HD Cornea Scan

Keratoconus



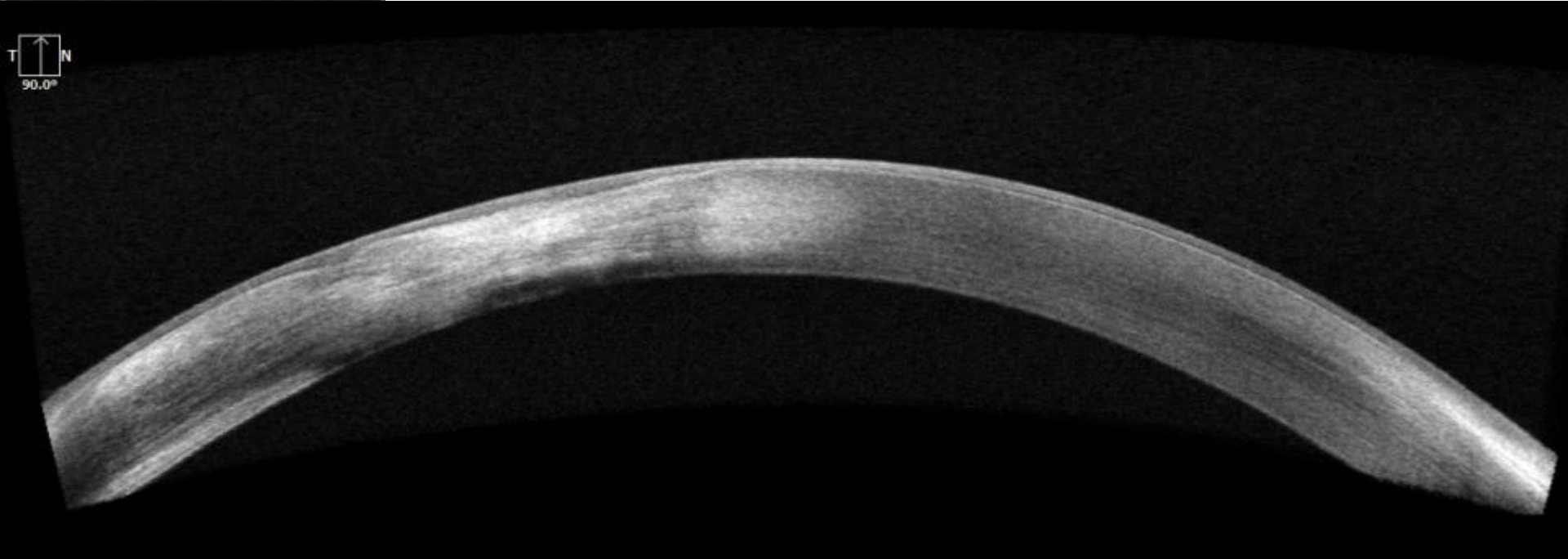
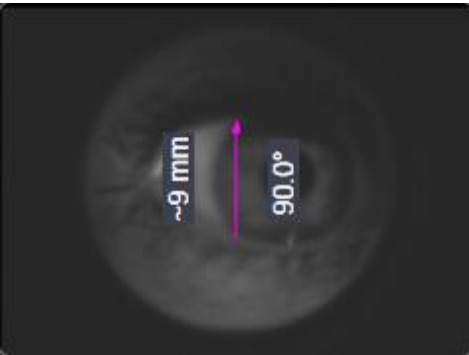
HD Cornea Scan

Salzmann's Nodular Degeneration



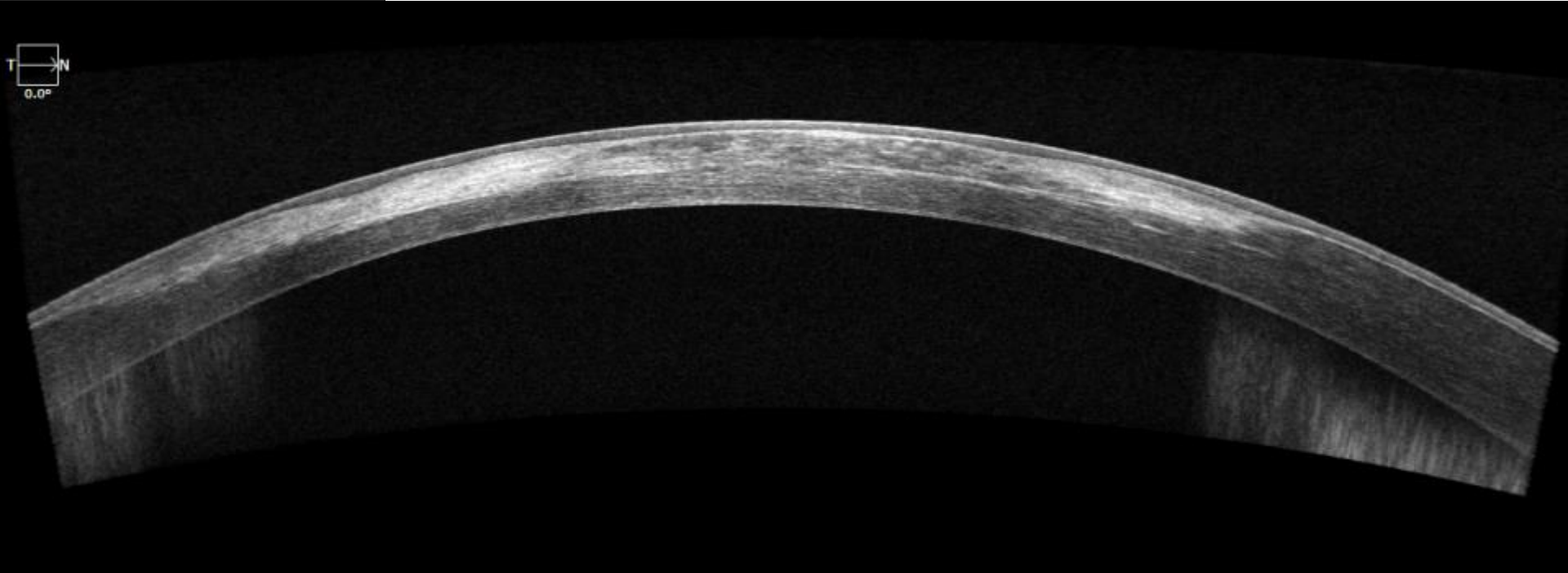
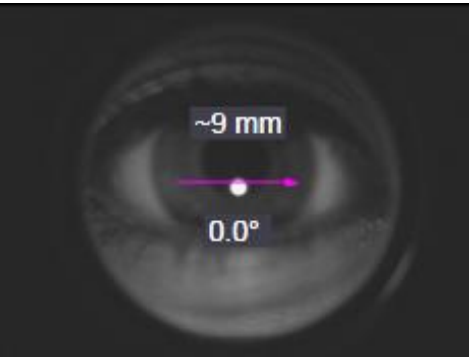
HD Cornea Scan

HSV Stromal Keratitis



HD Cornea Scan

Corneal Scar

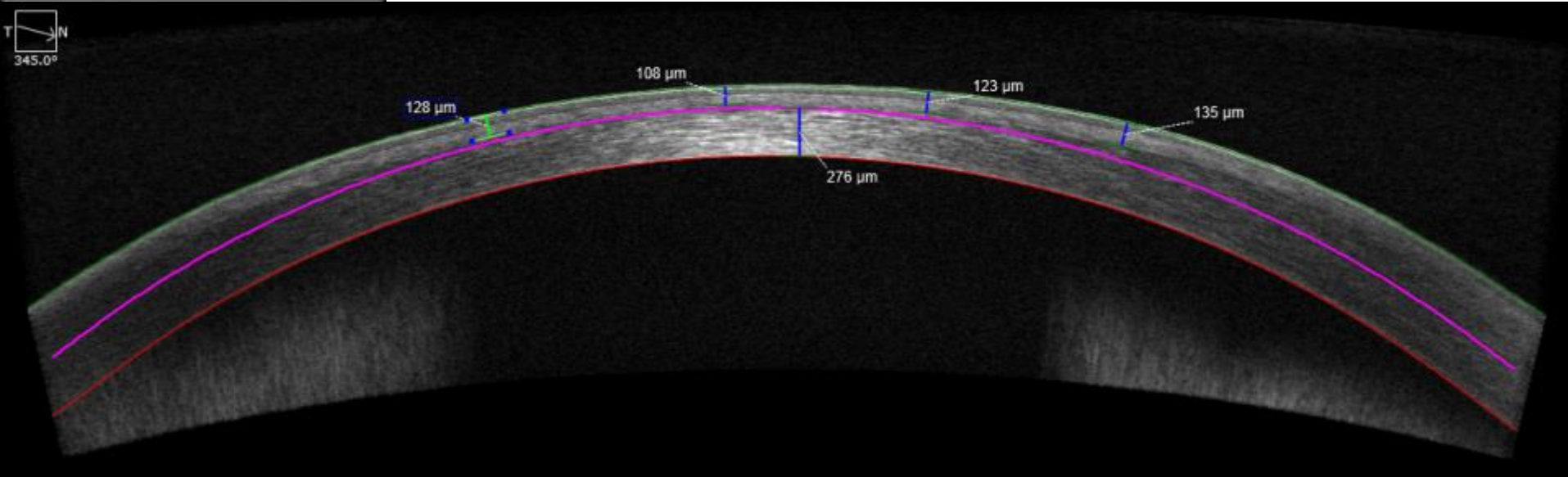
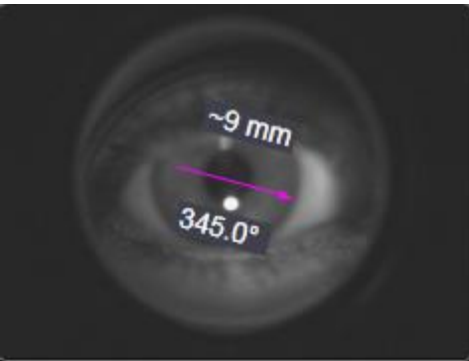


HD Cornea Scan

Post-LASIK Cornea



- Stromal Distance Tool to assess residual stromal bed thickness for LASIK enhancement decision
- Caliper Tool for measuring structures such as corneal flap thickness

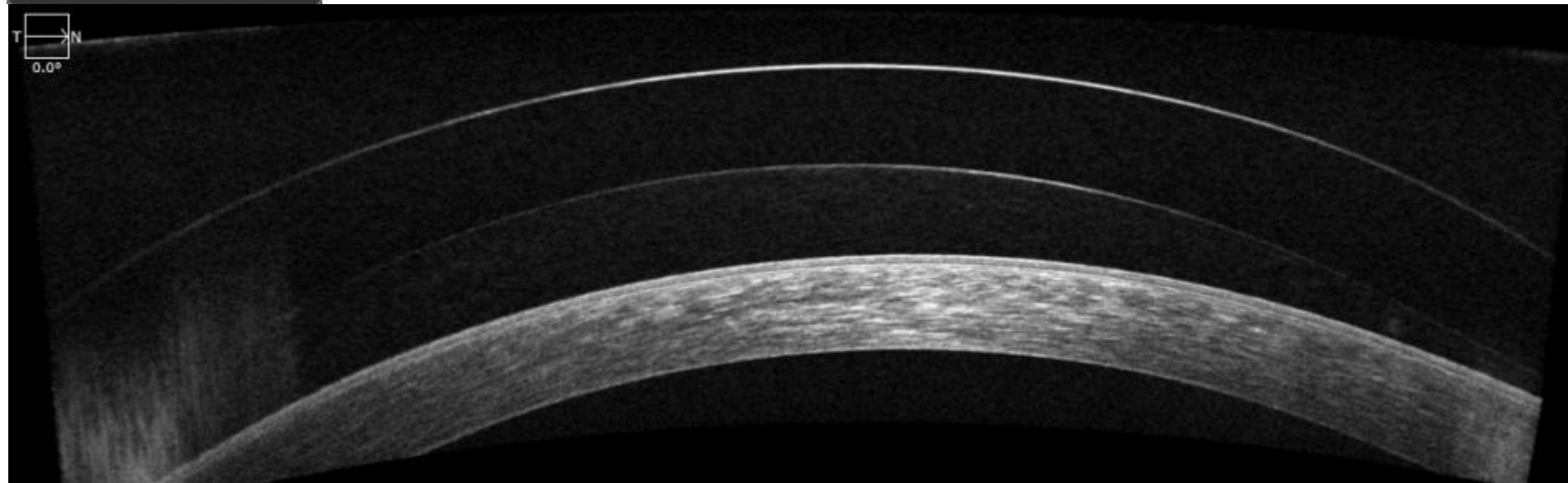
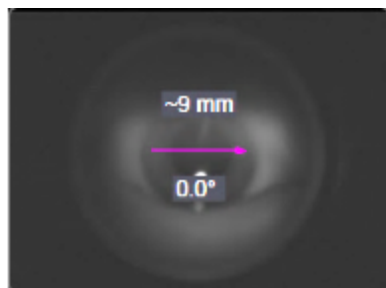


HD Cornea

Scleral Contact Lens



Simplify the assessment of lens to cornea fit relationship



Evaluate for Corneal Pathology with Pachymetry Mapping

Pachymetry Map (9 mm)



Case Example: Normal Cornea

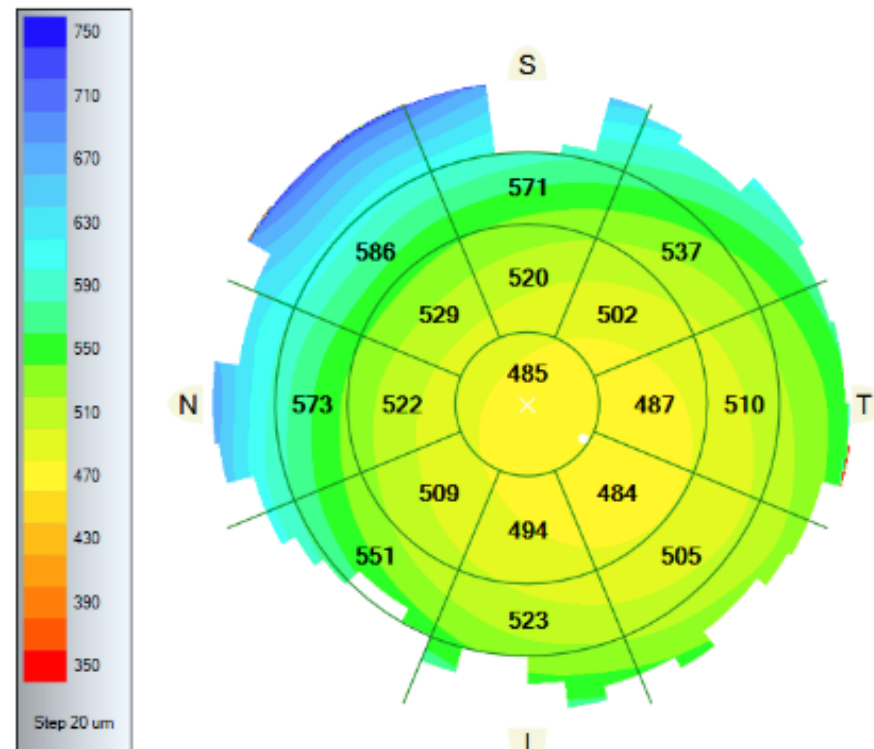
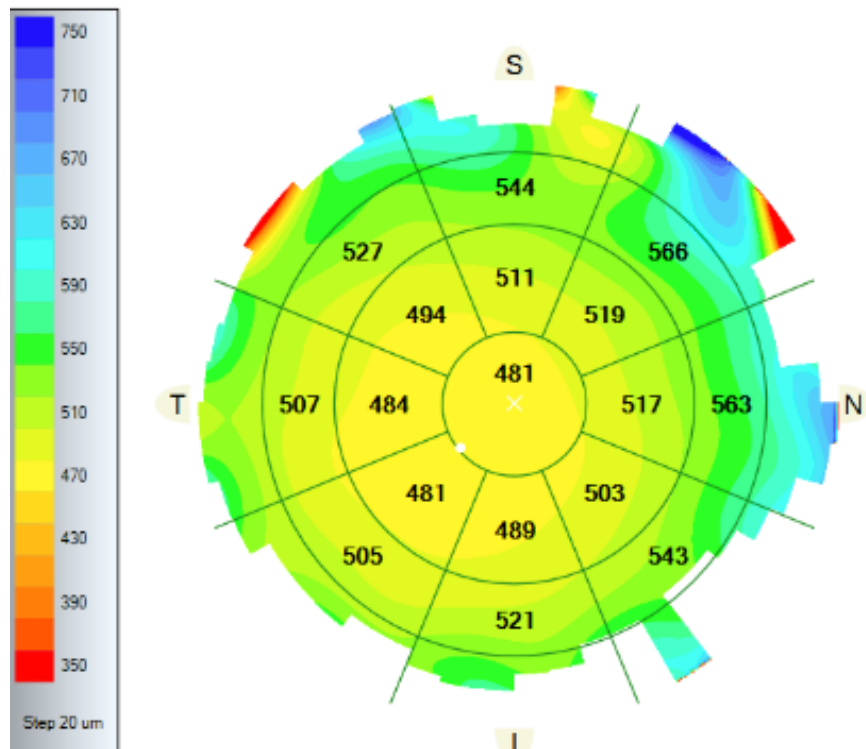
OD

Pachymetry Map Images (OD) Images (OS)

OS

Exam Date: 6/12/2013 6:41:09 PM

Exam Date: 6/12/2013 6:42:28 PM



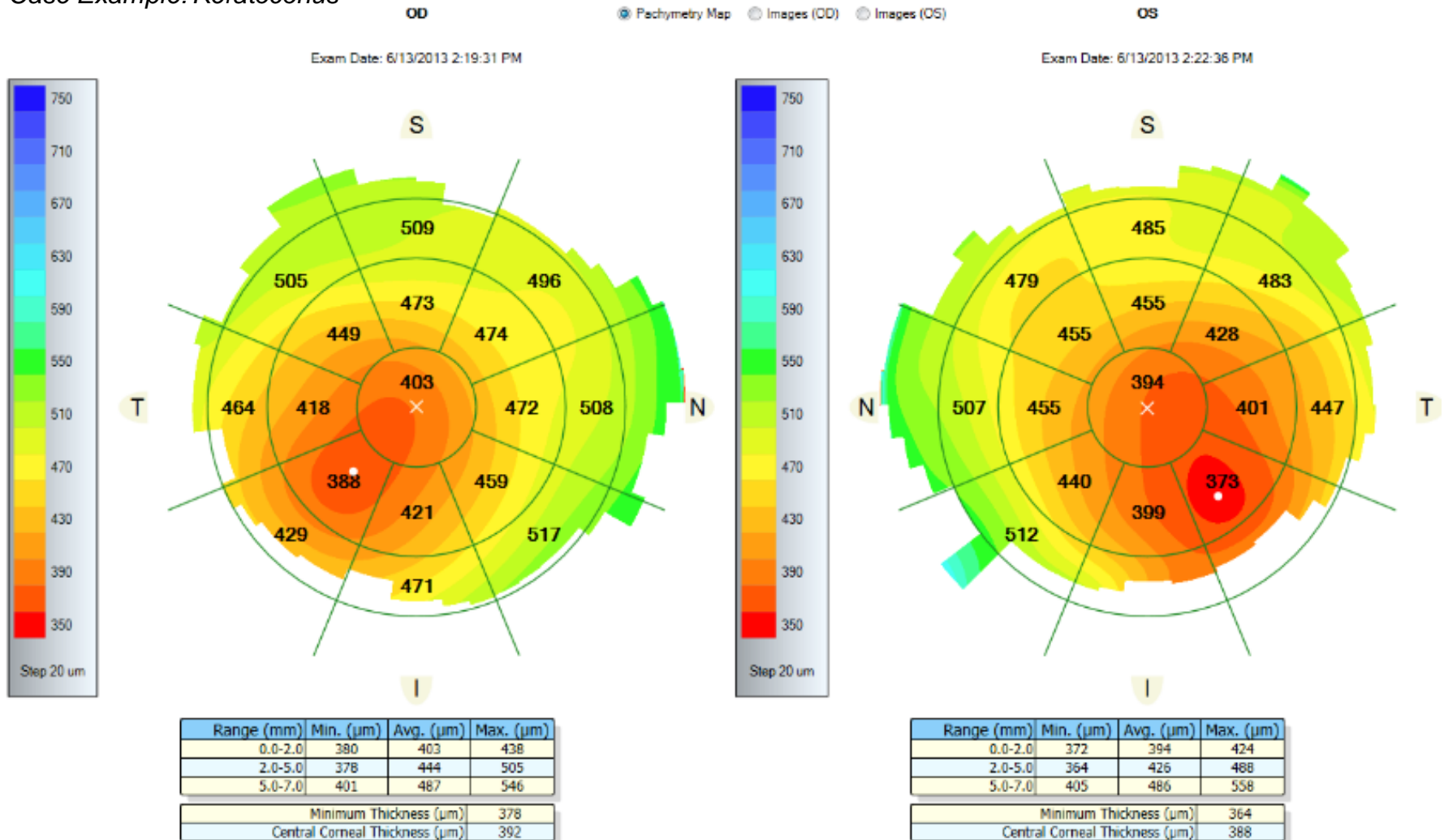
Range (mm)	Min. (µm)	Avg. (µm)	Max. (µm)
0.0-2.0	473	481	495
2.0-5.0	473	500	544
5.0-7.0	487	534	619
Minimum Thickness (µm)			473
Central Corneal Thickness (µm)			478

Range (mm)	Min. (µm)	Avg. (µm)	Max. (µm)
0.0-2.0	476	485	501
2.0-5.0	476	506	557
5.0-7.0	491	545	622
Minimum Thickness (µm)			476
Central Corneal Thickness (µm)			482

Pachymetry Map Highlights Corneal Thinning due to Keratoconus



Case Example: Keratoconus



Epithelial Thickness Mapping (ETM)

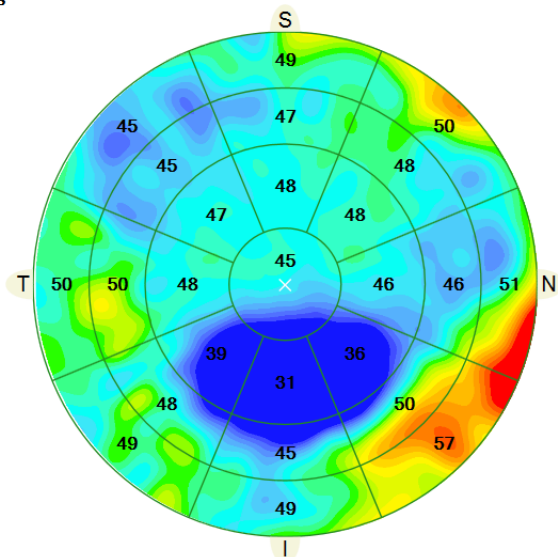
Available with Anterior Segment Premium Module



Value Proposition:

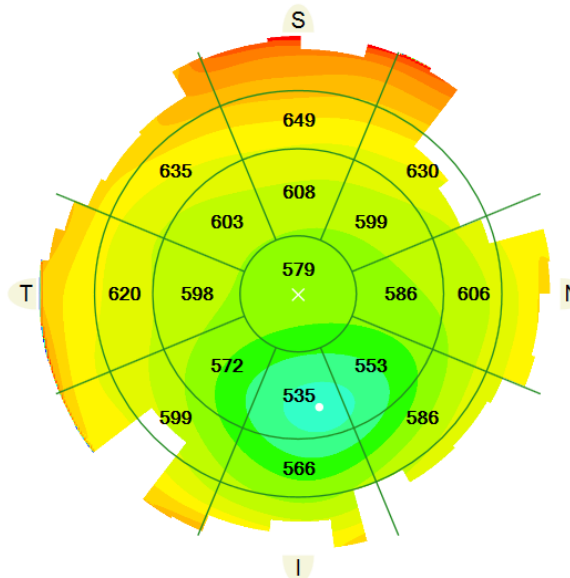
- Epithelial layer thinning may be associated with early keratoconus.
- The new Epithelial thickness map provides visualization and measurement of the Epithelial cell layer for up to 9 mm scan region

Epithelial Thickness



Range (mm)	Min. (µm)	Avg. (µm)	Max. (µm)	S-I (µm)	SN-IT (µm)
0.0-2.0	35	45	49	-	-
2.0-5.0	28	43	50	17	9
5.0-7.0	33	47	59	2	0
7.0-9.0	42	50	65	0	1
Minimum Thickness (µm)		28	Y Min (mm)		-1.9
Epithelial Min-Median (µm)		-16	Central Epithelial Thickness (µm)		47

Pachymetry



Range (mm)	Min. (µm)	Avg. (µm)	Max. (µm)	S-I (µm)	SN-IT (µm)
0.0-2.0	552	579	589	-	-
2.0-5.0	522	582	628	73	27
5.0-7.0	534	611	677	83	31
Minimum Thickness (µm)		522	Y Min (µm)		-1949
Pachy Min-Median (µm)		-59	Central Corneal Thickness (µm)		581

CIRRUS HD-OCT Version 8

Advancing Smart OCT



Add Smart Imaging to Your Practice Today

- **Retina** - Targeted Visualizations of Critical Anatomy
- **Glaucoma** - PanoMap Widefield Analysis
- **Anterior Segment** – New Anterior Segment Premier Module



CIRRUS HD-OCT Software Version 8 is available for Models 5000 and 500.



We make it visible.