

# ANTERION®

Multimodal Imaging Platform  
Optimized for the Anterior Segment

**HEIDELBERG**  
**ENGINEERING**



## The multimodal functionality you need

The image quality you expect

### Imaging App

- Anterior chamber and angle imaging
- Corneal and scleral imaging
- Visualization of the lens and both surfaces
- Customizable scan patterns
- Peripheral imaging

The expandable design you want (optional)

### Cornea App

- Corneal topography
- Corneal tomography
- Pachymetry
- Total corneal power
- Corneal wavefront analysis
- Corneal differential maps
- Progression analysis
- Ectasia View with SCORE analyzer
- Epithelial Thickness Module

### Cataract App

- Axial length
- Lens thickness
- Aqueous depth
- Central corneal thickness
- Anterior axial curvature
- Total corneal power
- Total corneal wavefront
- Spheric and toric IOL calculator
- Formulas:
  - SRK/T
  - Haigis
  - Holladay I
  - Hoffer® Q
  - Barrett formulas (Universal II, Toric, True-K, True-K Toric)
- Import options for IOL database
- OKULIX ray tracing

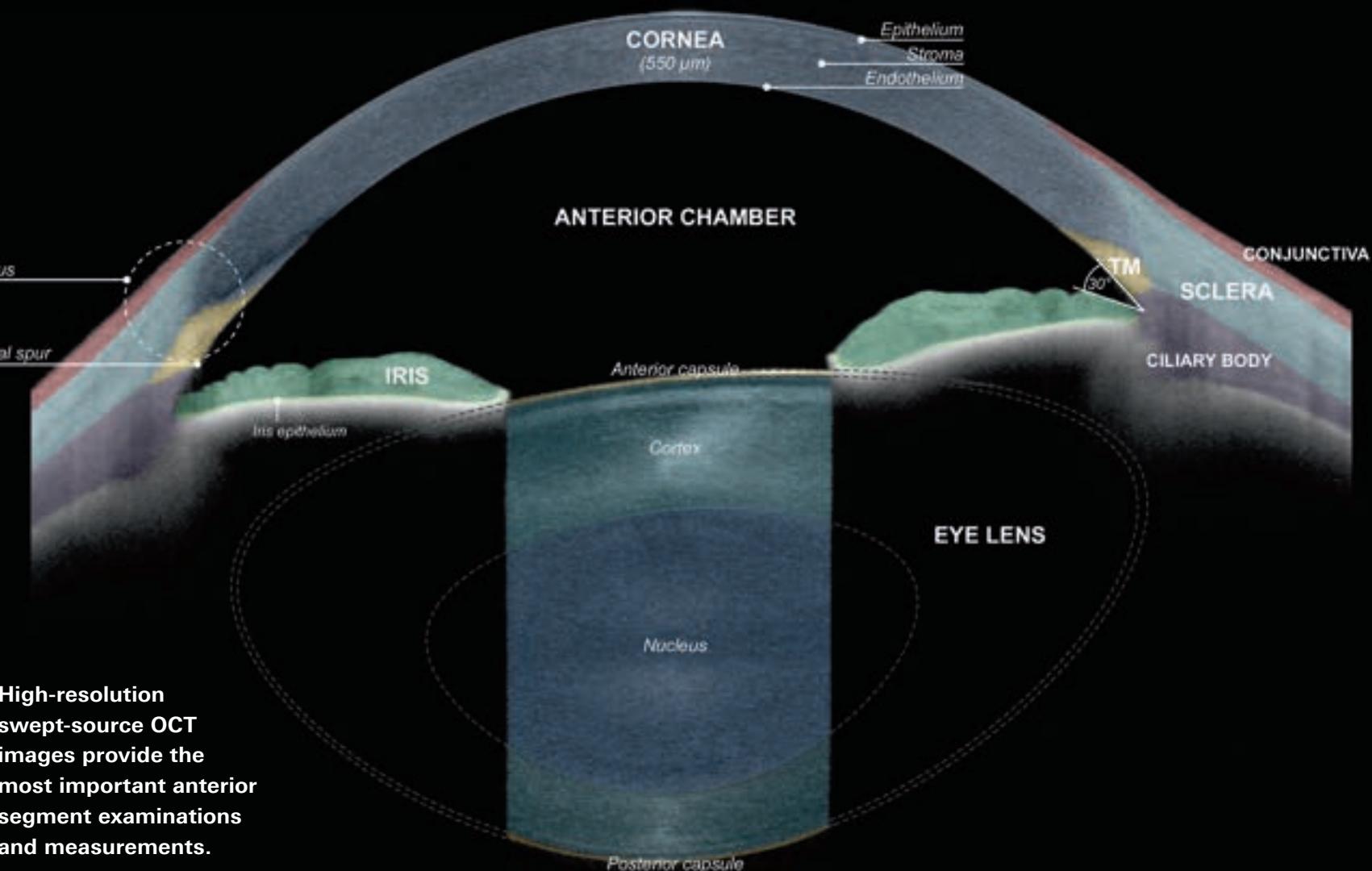
### Metrics App

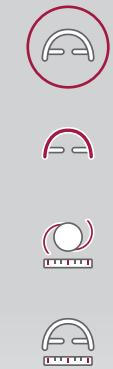
- Anterior chamber angle assessment
- 360° graphs of angle parameters
- Anterior chamber volume
- Lens vault
- Lens thickness
- Free-hand measurements
- Automatic scleral spur detection

## Experience confident diagnostics and workflow optimization

- Visually confirm all measurements with exceptionally clear swept-source OCT images.
- Increase efficiency and save space with a customizable, compact platform that meets your individual needs.
- Simplify the patient journey and transform your clinical workflow.
- Discover the speed and security of HEIDELBERG EYE EXPLORER HEYEX 2 image management.

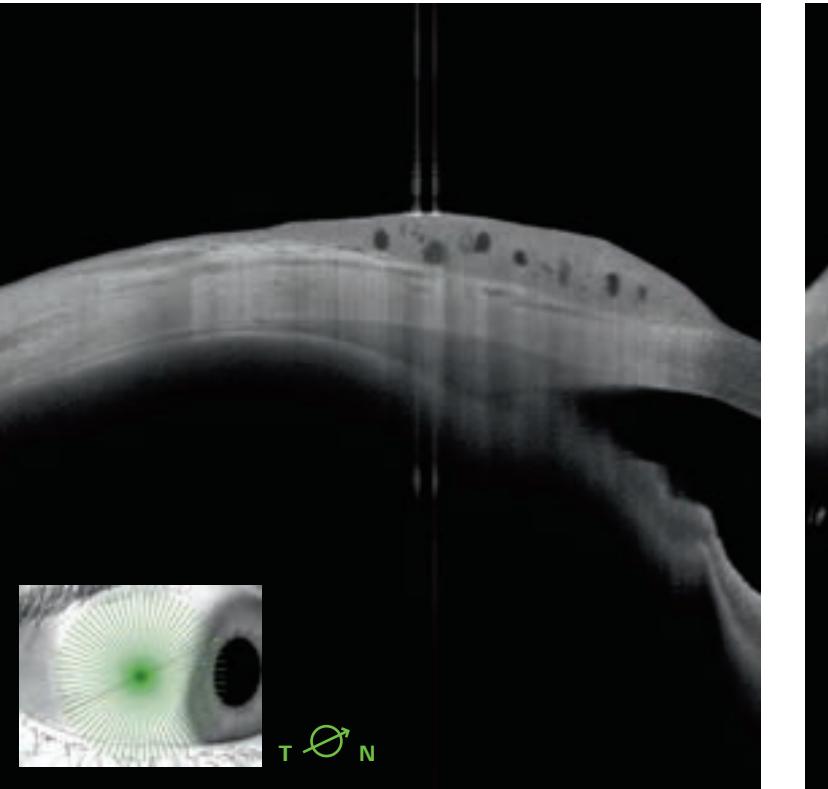
## Anterior segment anatomy





## Imaging App - Enhance your clinical confidence

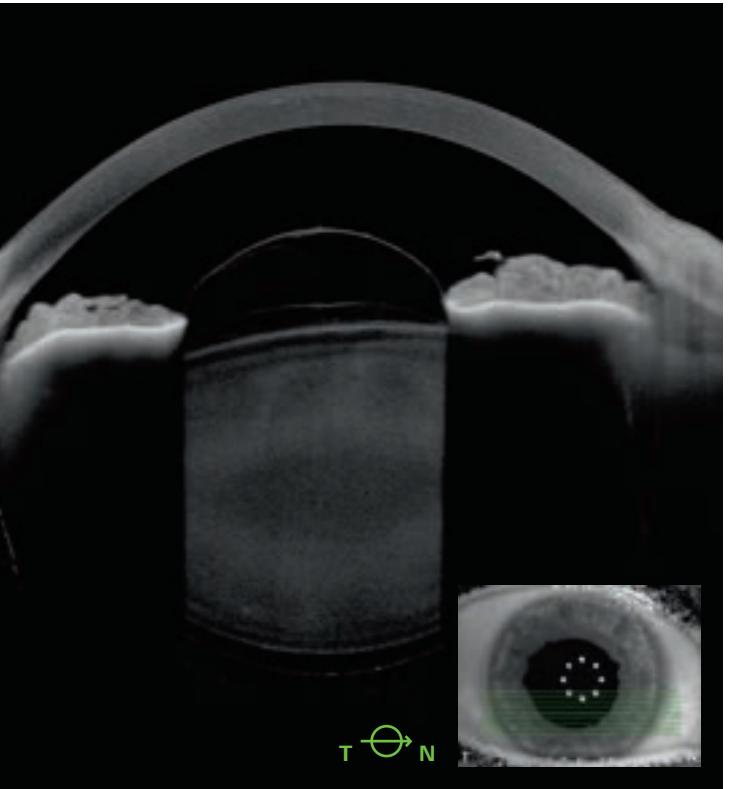
The Imaging App comes as standard. Visualize various anterior segment pathologies or surgical results, such as keratoplasty, implanted IOLs, and corneal rings.



**Conjunctival nevus (lateral fixation)**

Image courtesy: Sacha Nahon-Esteve, MD, Nice, France

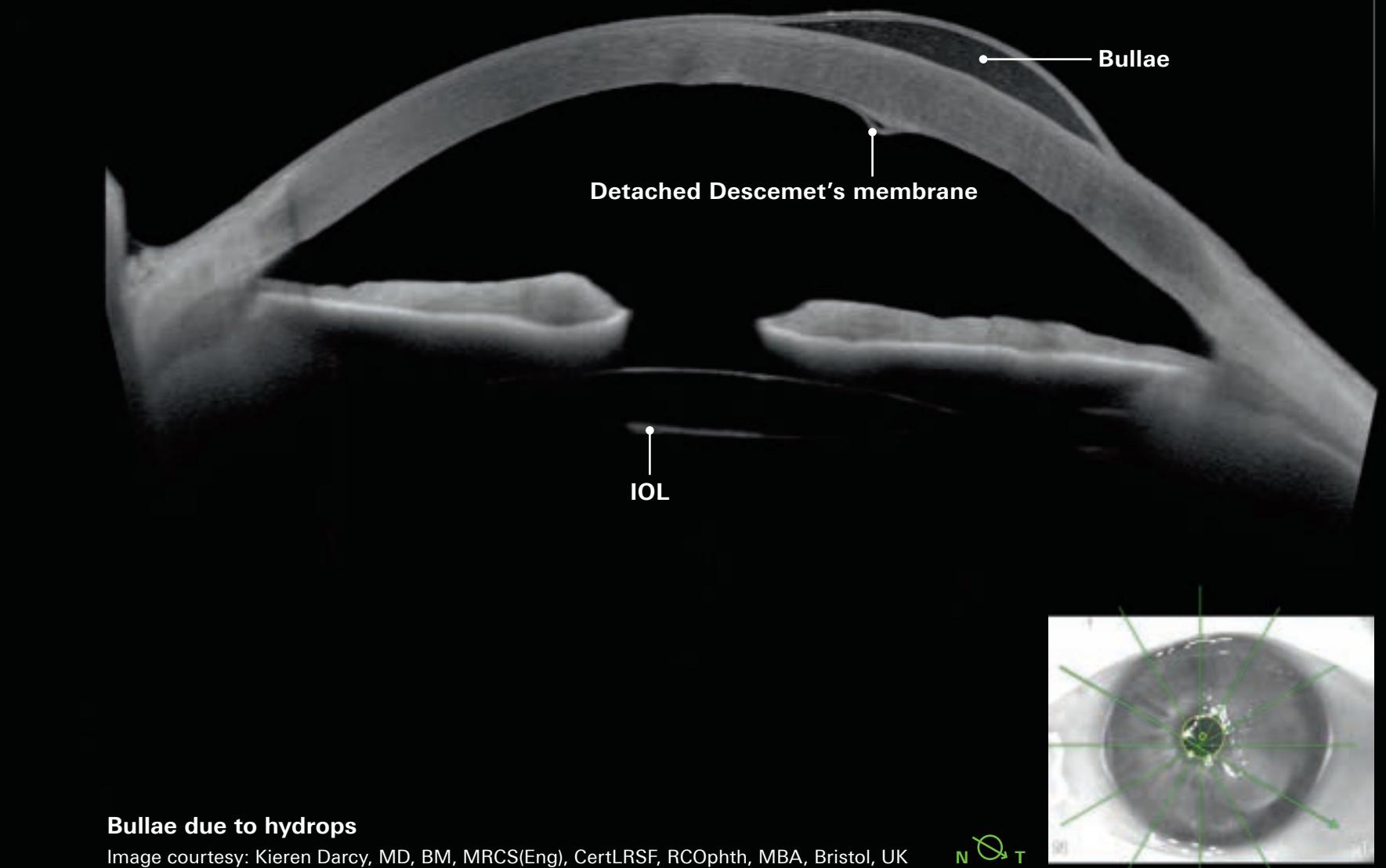
A detailed visualization of the sclera, ciliary body, and rectus muscle assists you in the diagnosis and management of pathologies that impact these anatomical structures.

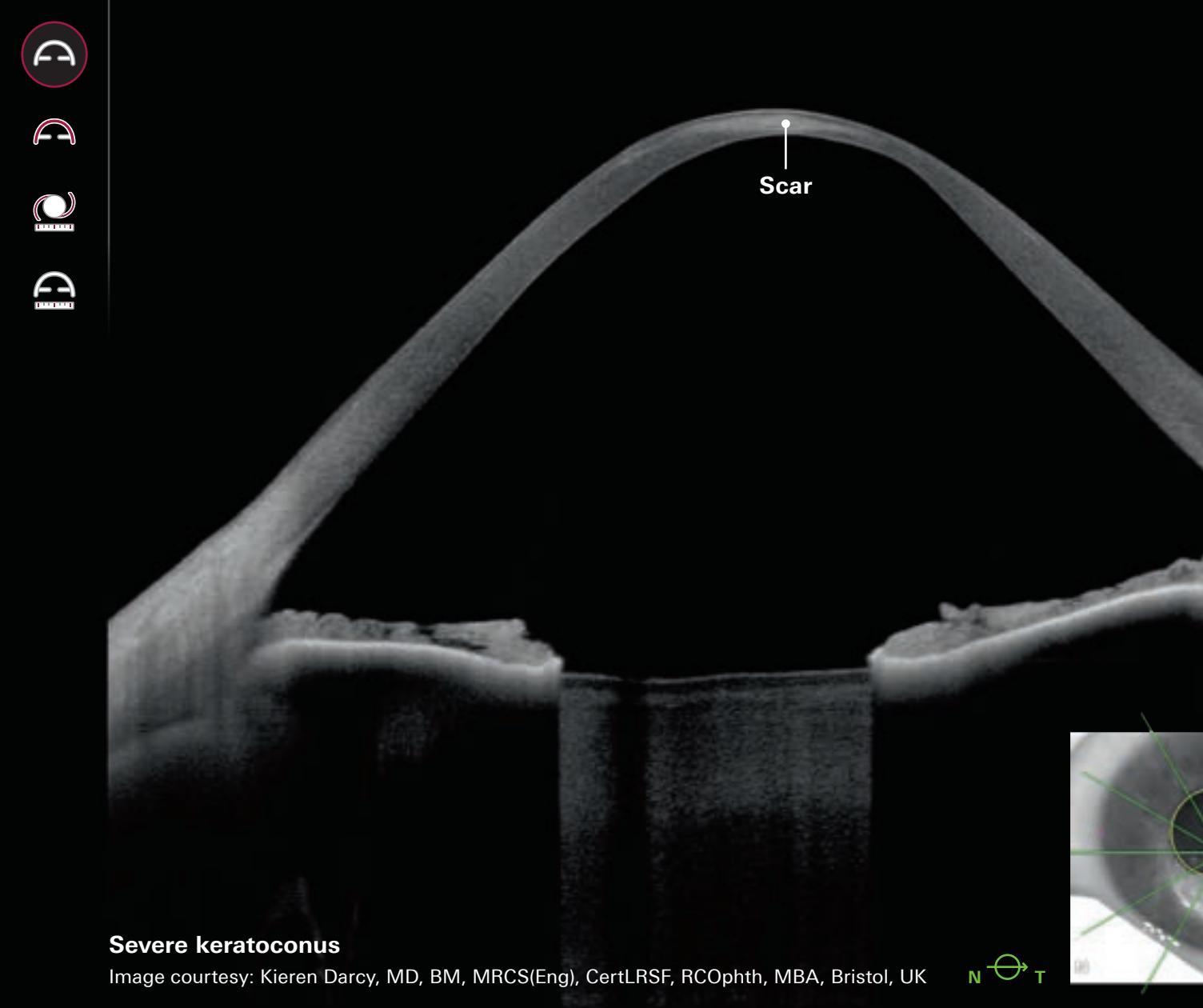


**Post trauma, vitreous in the anterior chamber**

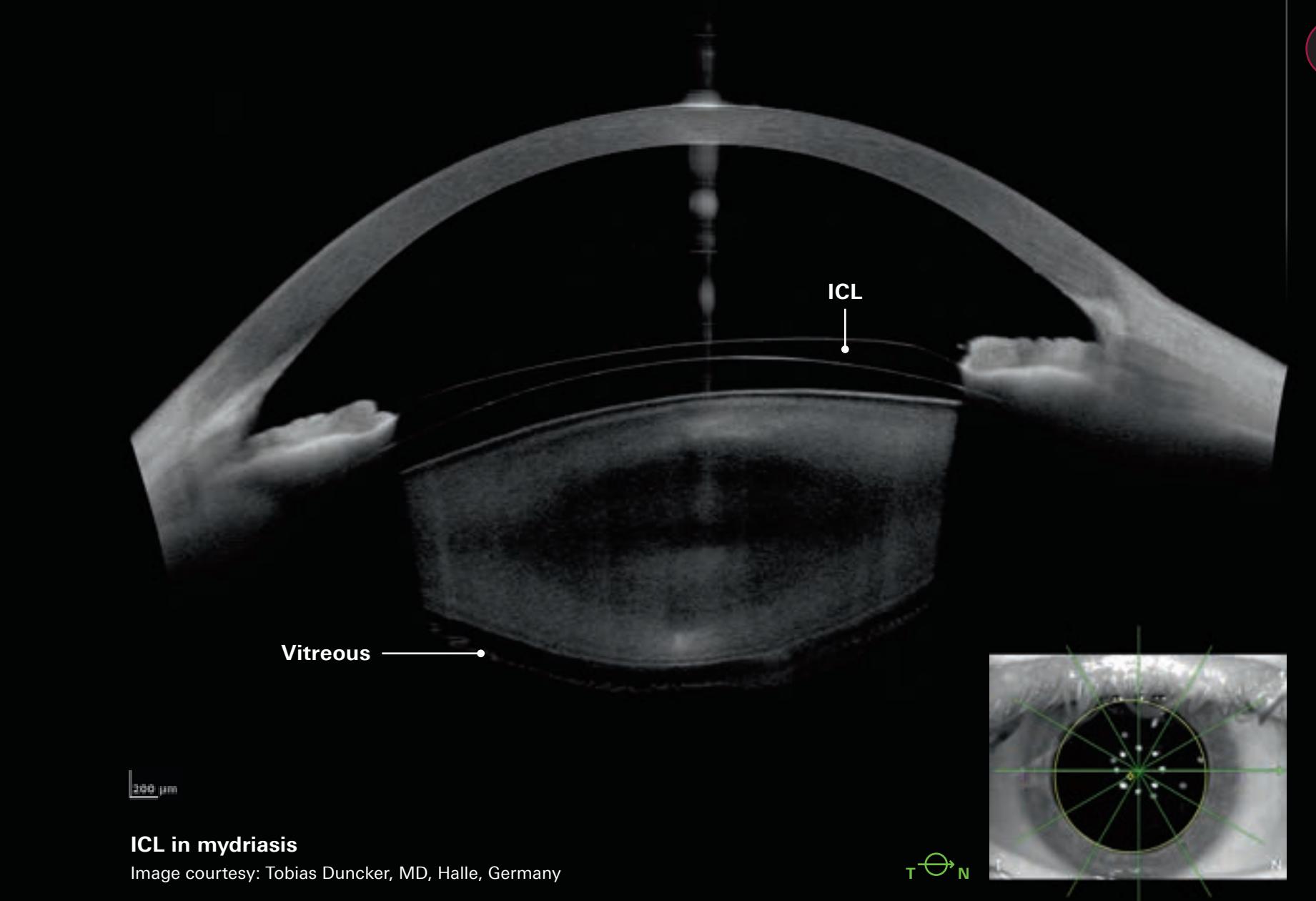
**Bullae due to hydrops**

Image courtesy: Kieren Darcy, MD, BM, MRCS(Eng), CertLRSF, RCOphth, MBA, Bristol, UK

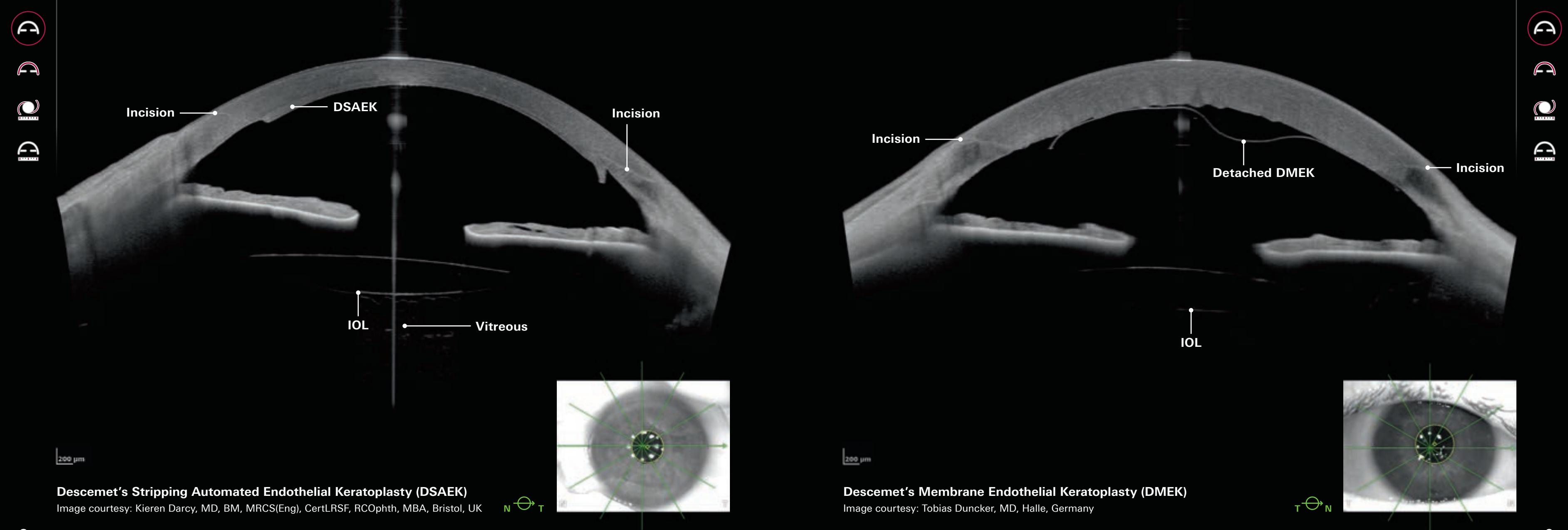




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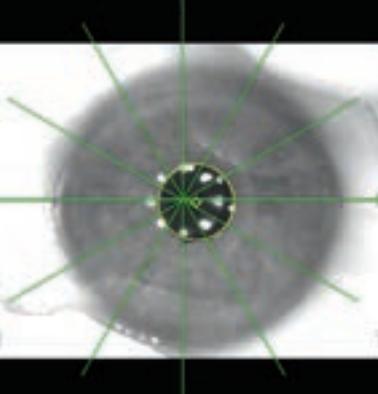
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### Descemet's Stripping Automated Endothelial Keratoplasty (DSAEK)

Image courtesy: Kieren Darcy, MD, BM, MRCS(Eng), CertLRSF, RCOPhtth, MBA, Bristol, UK

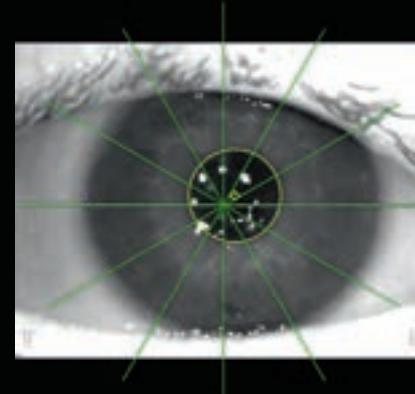
N → T

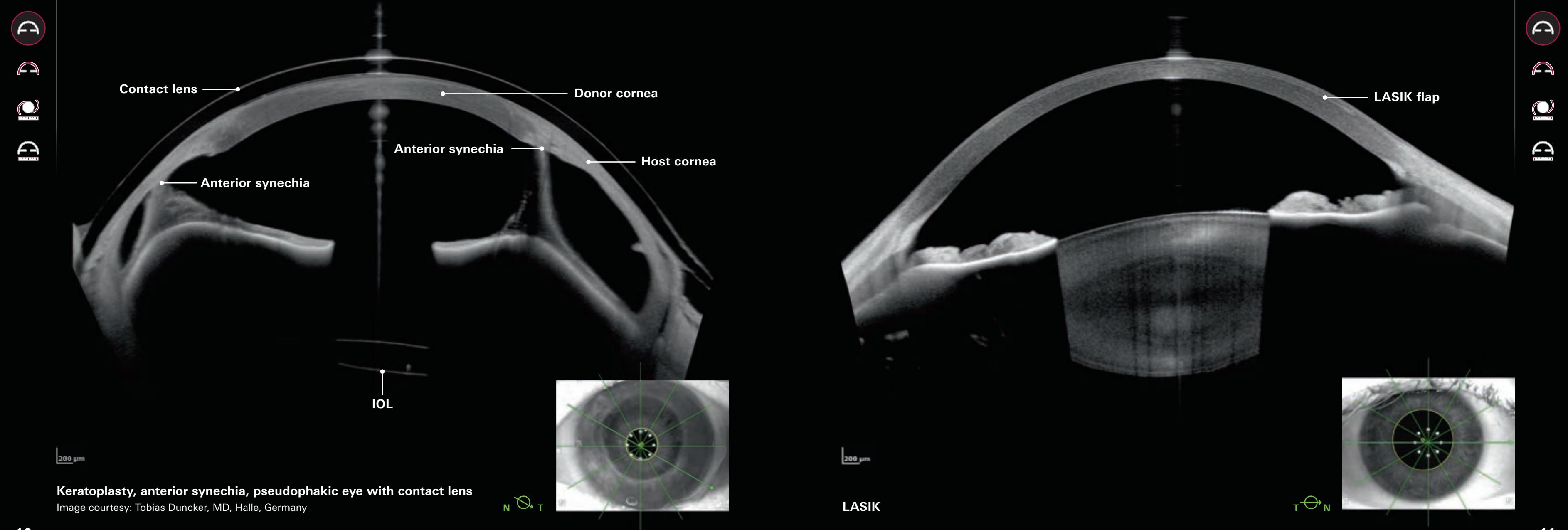


### Descemet's Membrane Endothelial Keratoplasty (DMEK)

Image courtesy: Tobias Duncker, MD, Halle, Germany

T → N

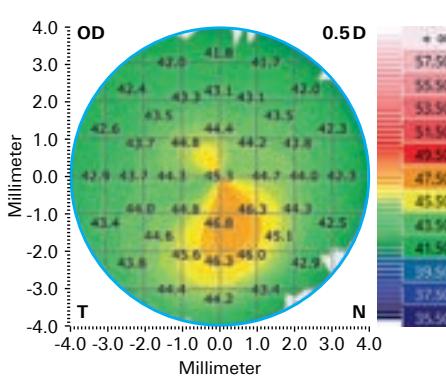




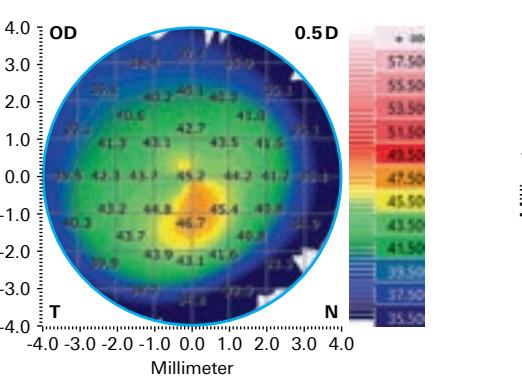


## Cornea App – Customized reports enhance your workflow

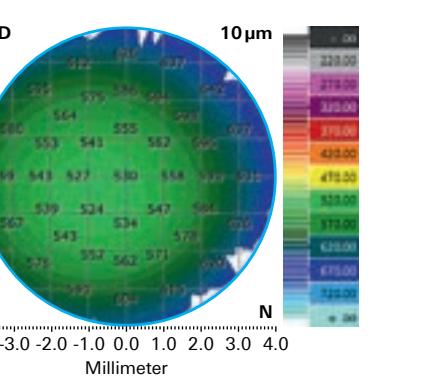
**Anterior axial curvature**



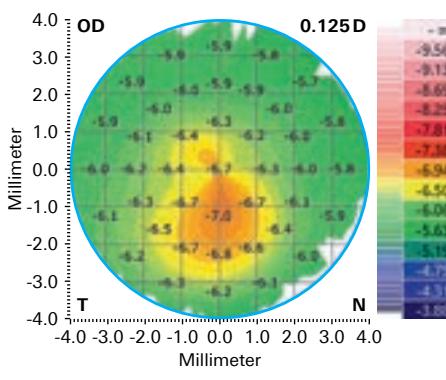
**Anterior tangential curvature**



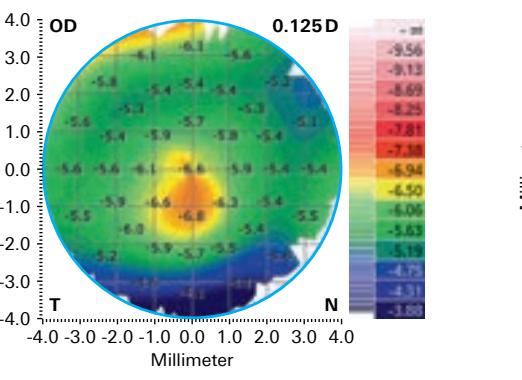
**Pachymetry**



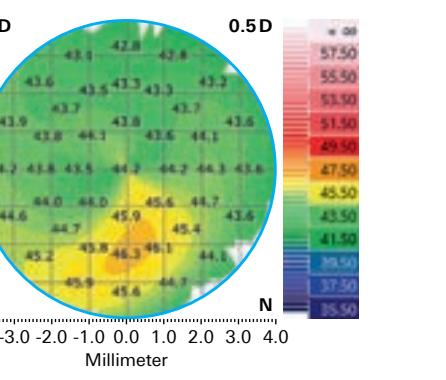
**Posterior axial curvature**



**Posterior tangential curvature**



**Total corneal power**

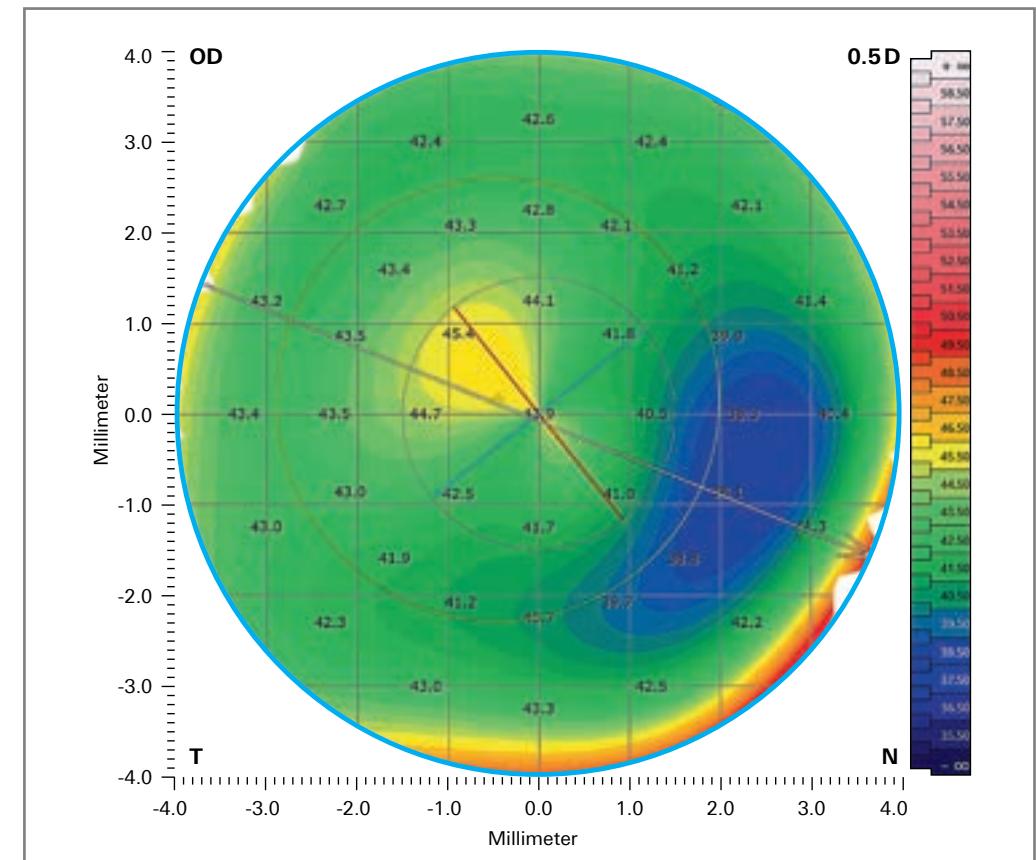


**Keratoconus Multiview**

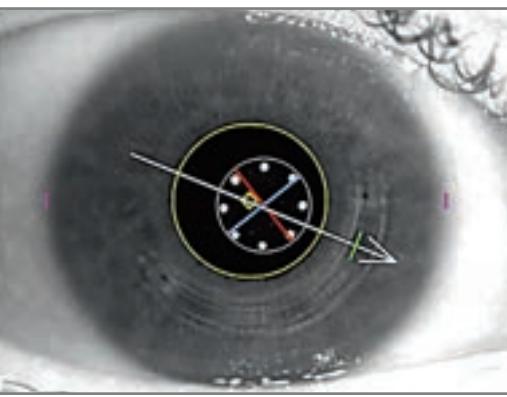
Image courtesy: Oliver Findl, MD, MBA, FEBO, Vienna, Austria

## Corneal maps correlate with camera and OCT images

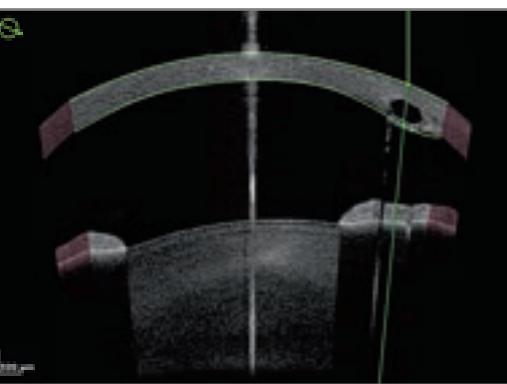
**Total corneal power map**



**IR camera image**



**OCT cross-sectional scan**



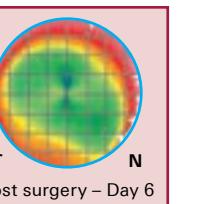
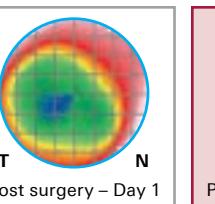
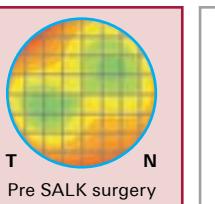
**Intrastromal corneal ring segment**

Image courtesy: Oliver Findl, MD, MBA, FEBO, Vienna, Austria

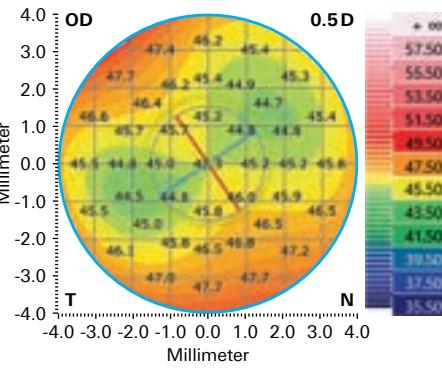


## Visualize, measure and document progression

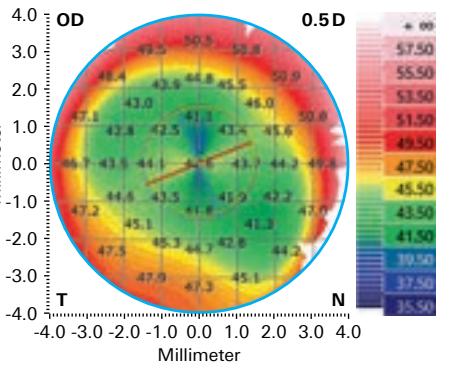
Examinations –  
Total corneal power map:



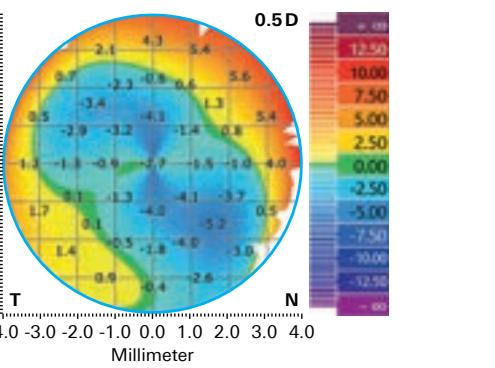
Baseline Pre SALK surgery



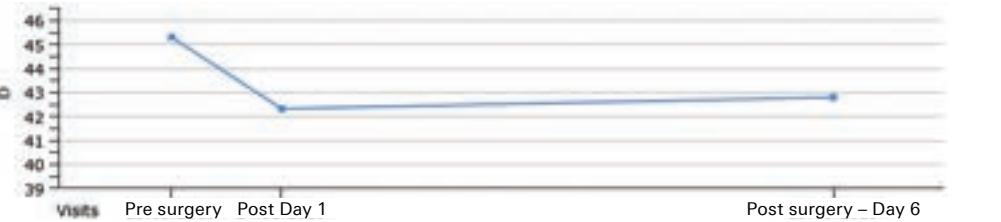
Follow-up Post surgery – Day 6



Follow-up – Baseline Difference



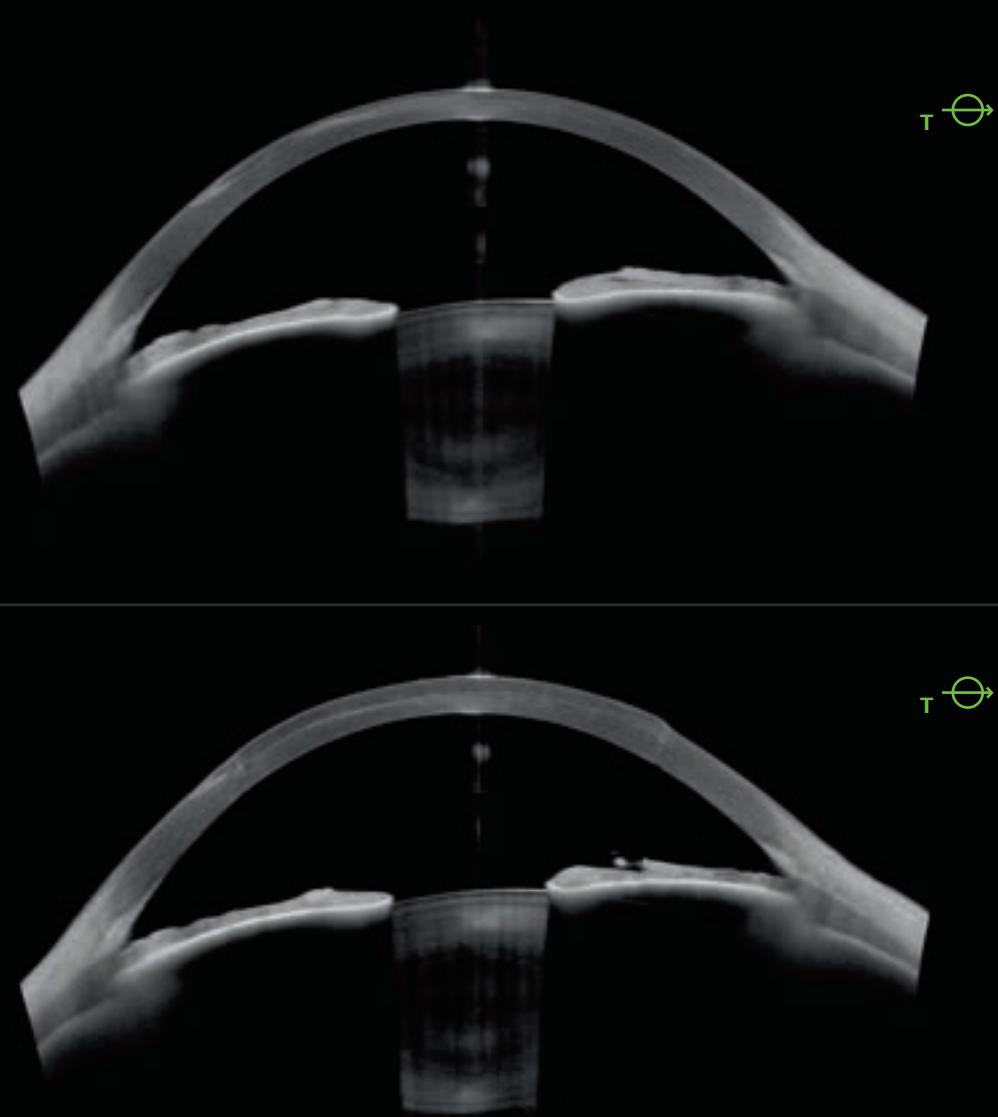
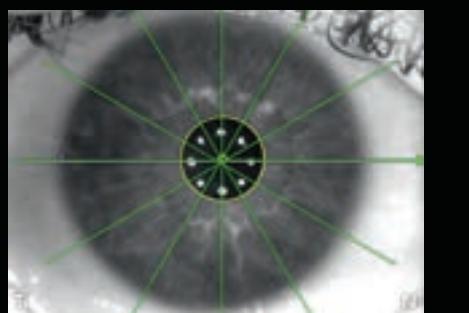
Trend analysis Total corneal power – K (average)



### Superficial Anterior Lamellar Keratoplasty – SALK

Image courtesy: Kieren Darcy, MD, BM, MRCS(Eng), CertLRSF, RCOphtth, MBA, Bristol, UK

Baseline – Pre SALK surgery



Follow-up – Day 6 –  
Post SALK surgery

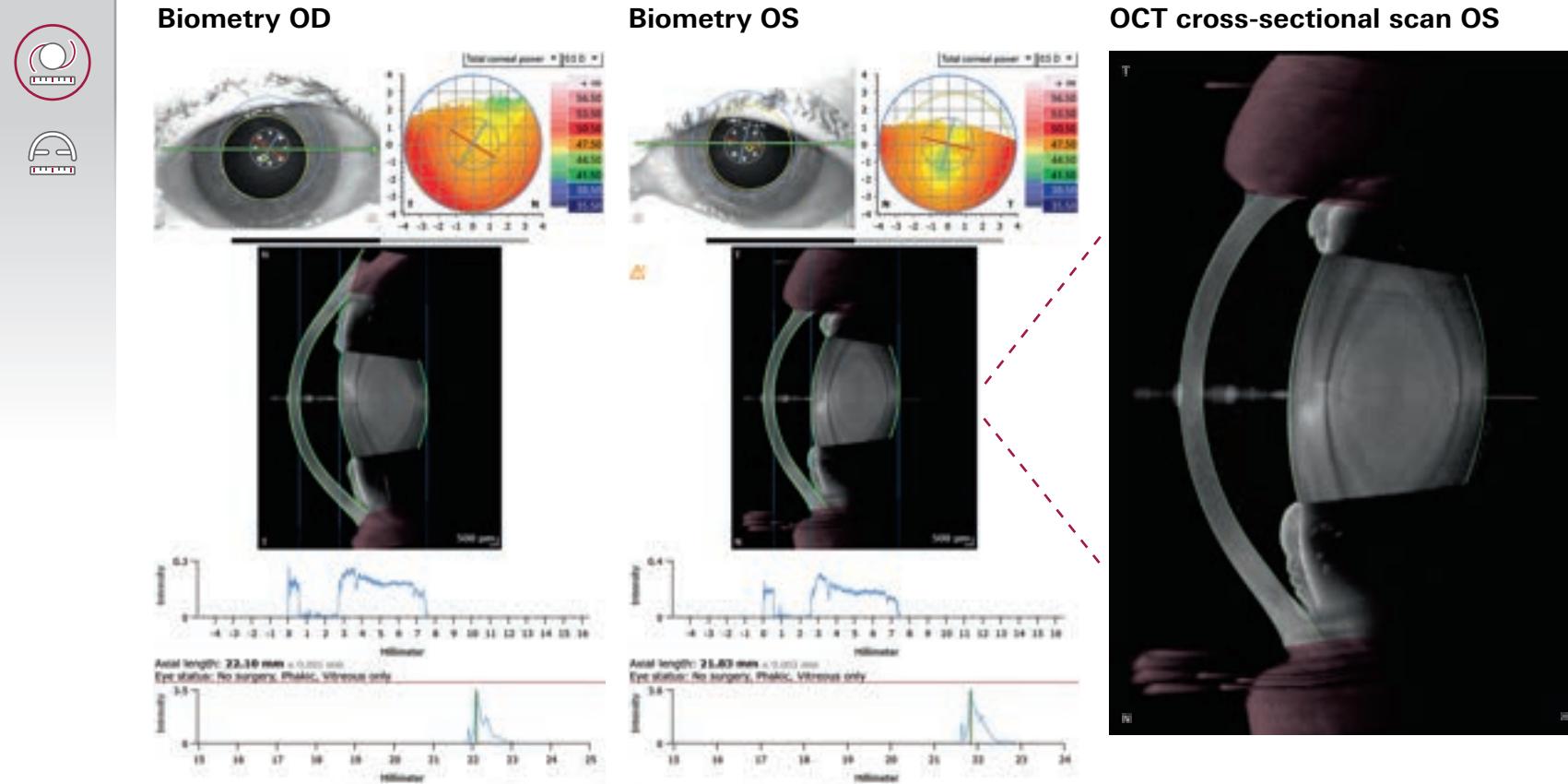


Confirm the reliability of your data using the Imaging App if clinically indicated

Image courtesy: Kieren Darcy, MD, BM, MRCS(Eng), CertLRSF, RCOphtth, MBA, Bristol, UK

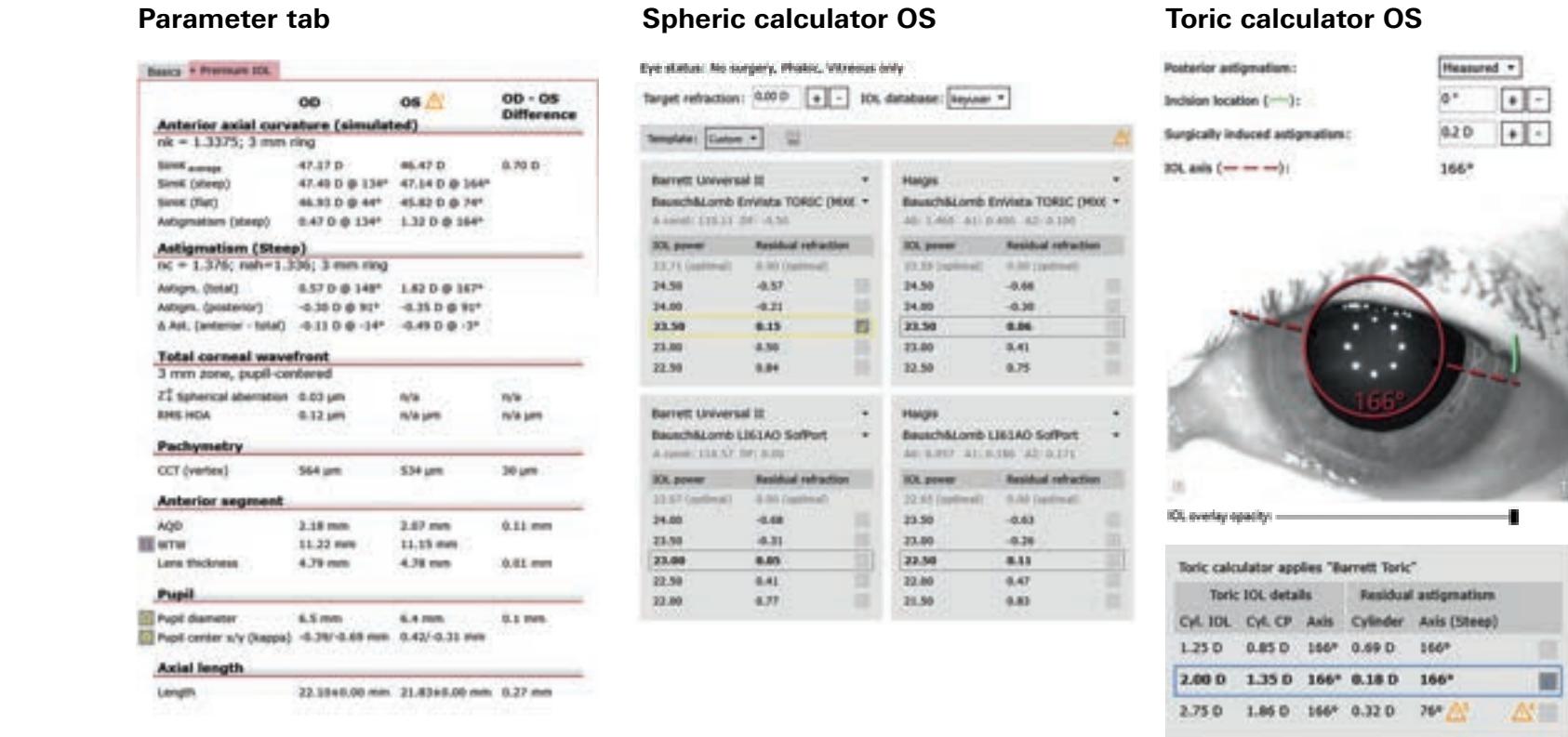


## Cataract App - Confirm biometry on OCT images

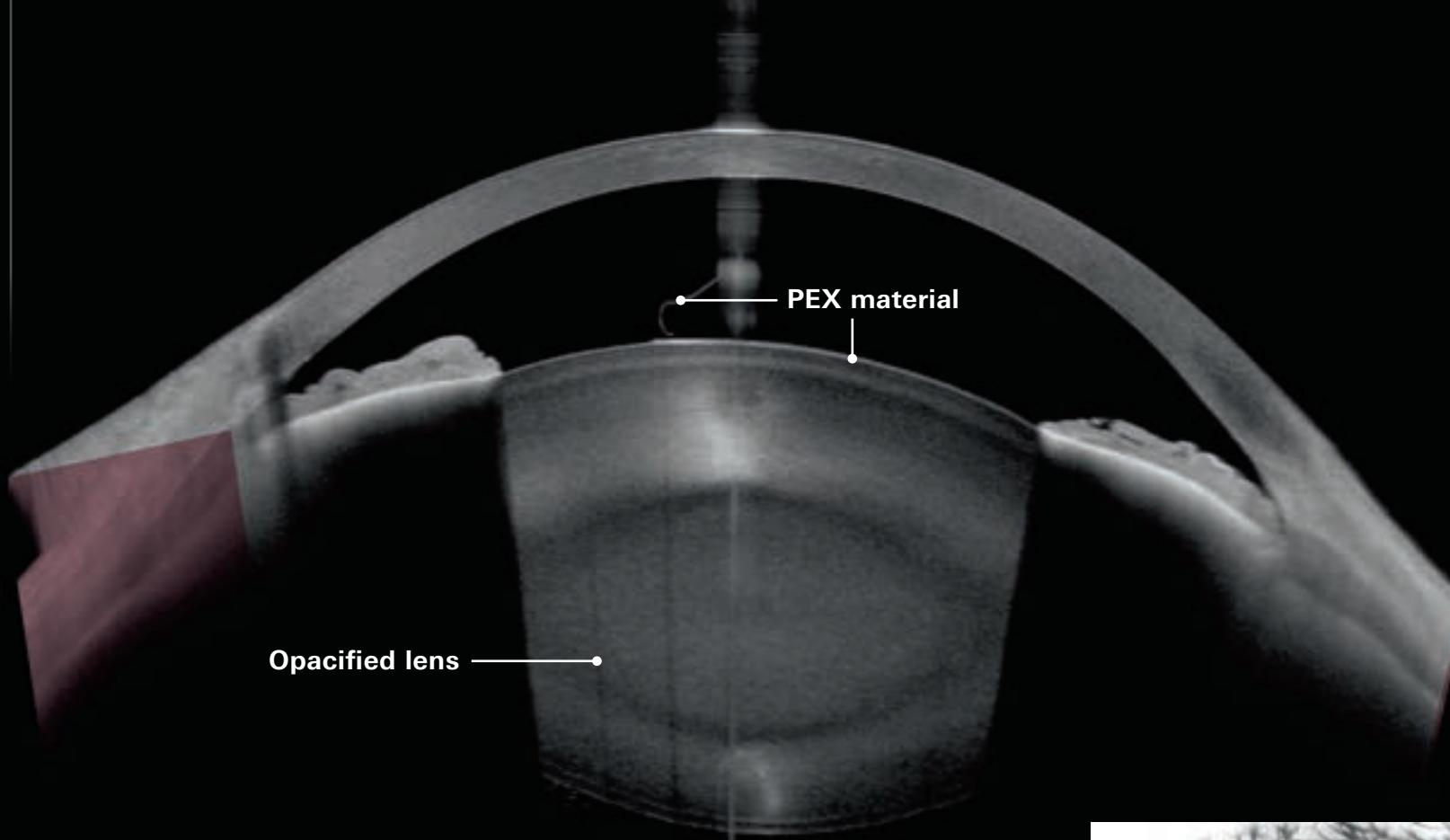
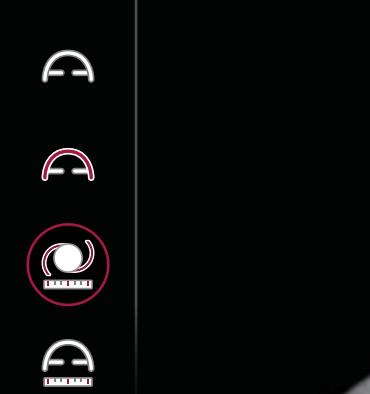


Conveniently compare the biometry data of both eyes. Optimize your clinical workflow using OCT images to visually confirm your biometry data. See what you measure and measure what you see – for more confidence.

## Save time and streamline your workflow



Using the dedicated parameter tab, you can easily identify differences between the right and left eye. The integrated spheric and toric IOL calculator adds further convenience to your pre-operative routine and streamlines your workflow.



**Nuclear 3+ cataract with pseudoexfoliation syndrome (PEX)**

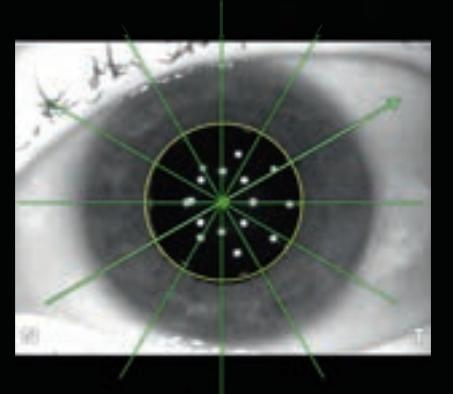
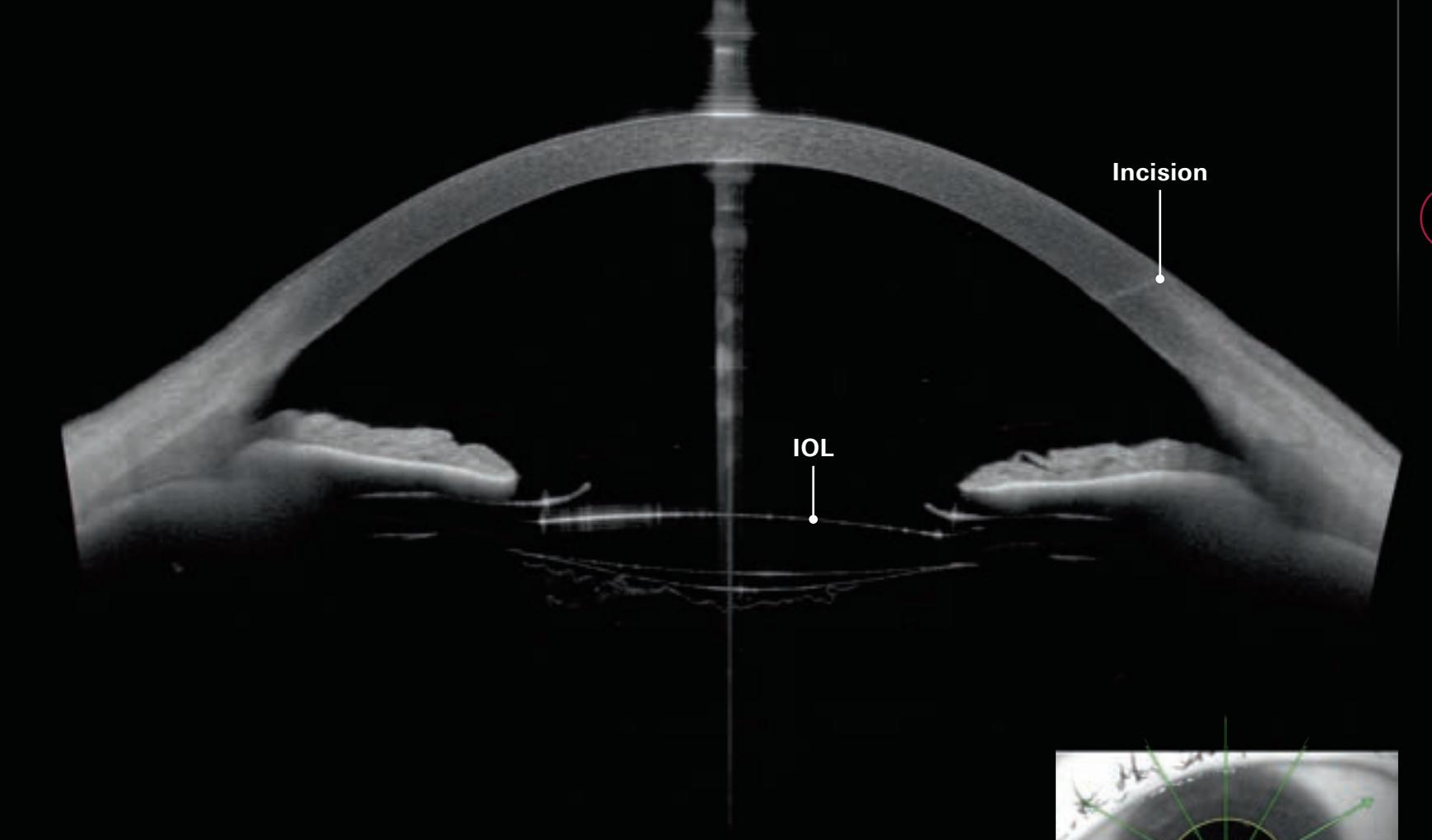
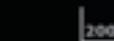
Image courtesy: Oliver Findl, MD, MBA, FEBO, Vienna, Austria



**Dilated pseudophakic eye, post cataract and capsulotomy**

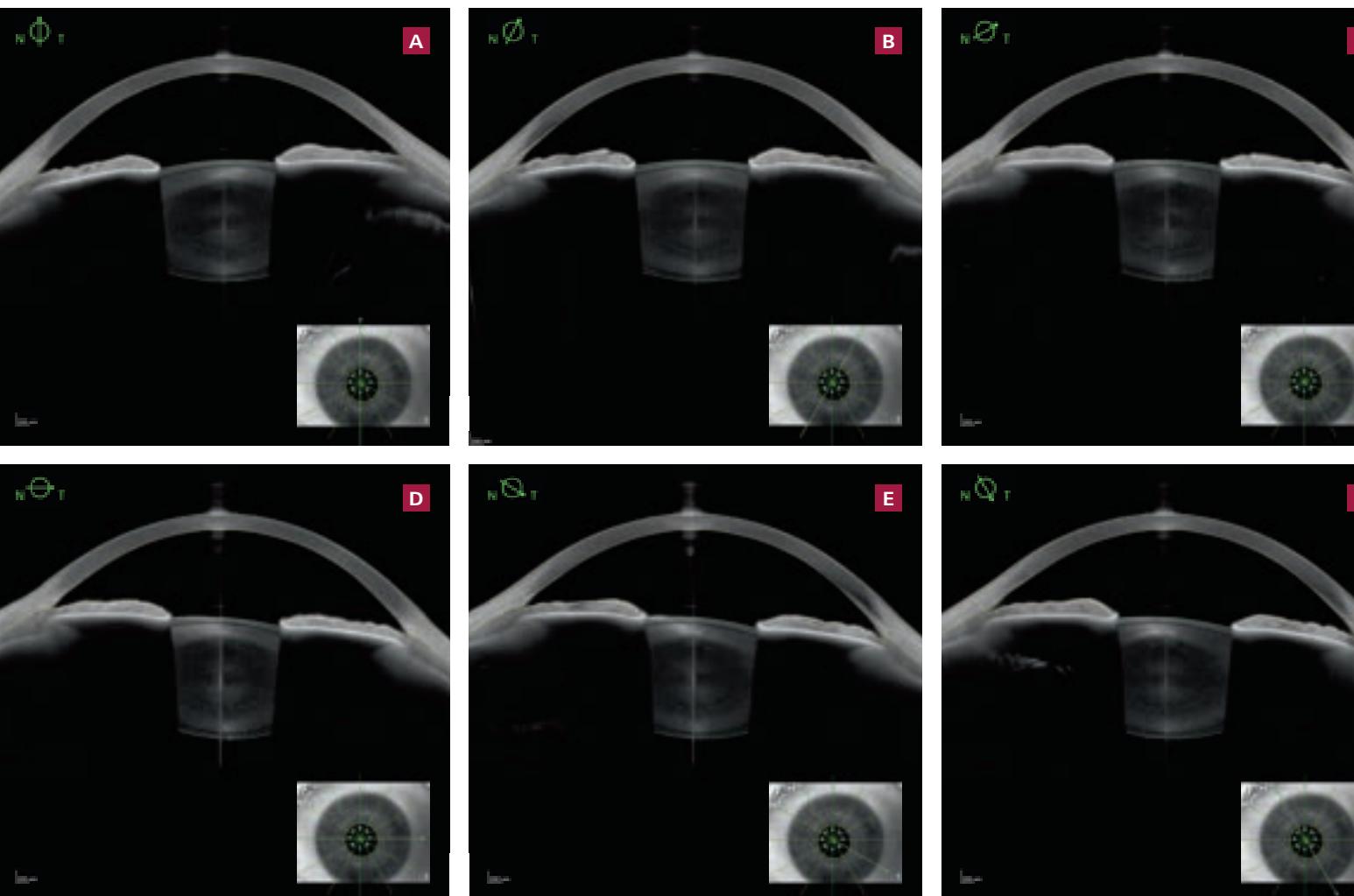
Confirm the reliability of your data using the Imaging App if clinically indicated.

Image courtesy: Ulrich Kellner, MD, Siegburg, Germany



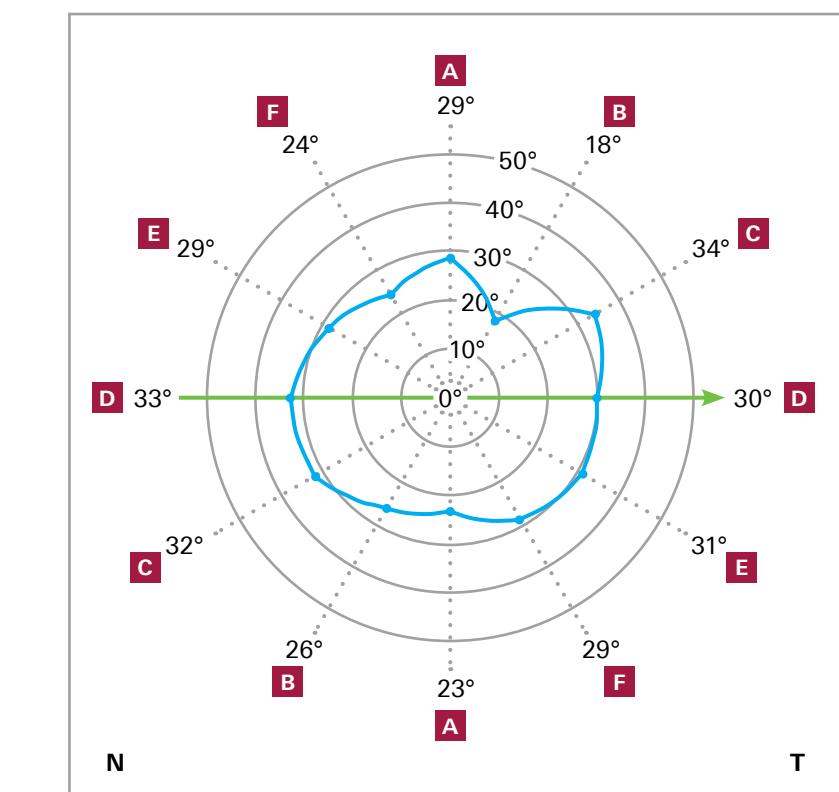


## Metrics App – Measure what you see

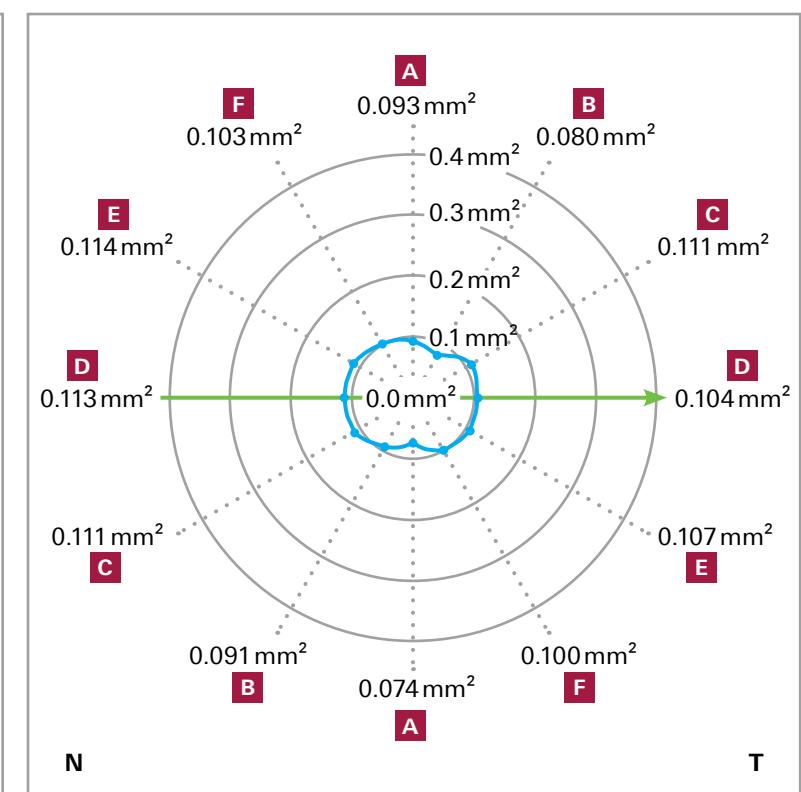


## Anterior segment parameters at a glance

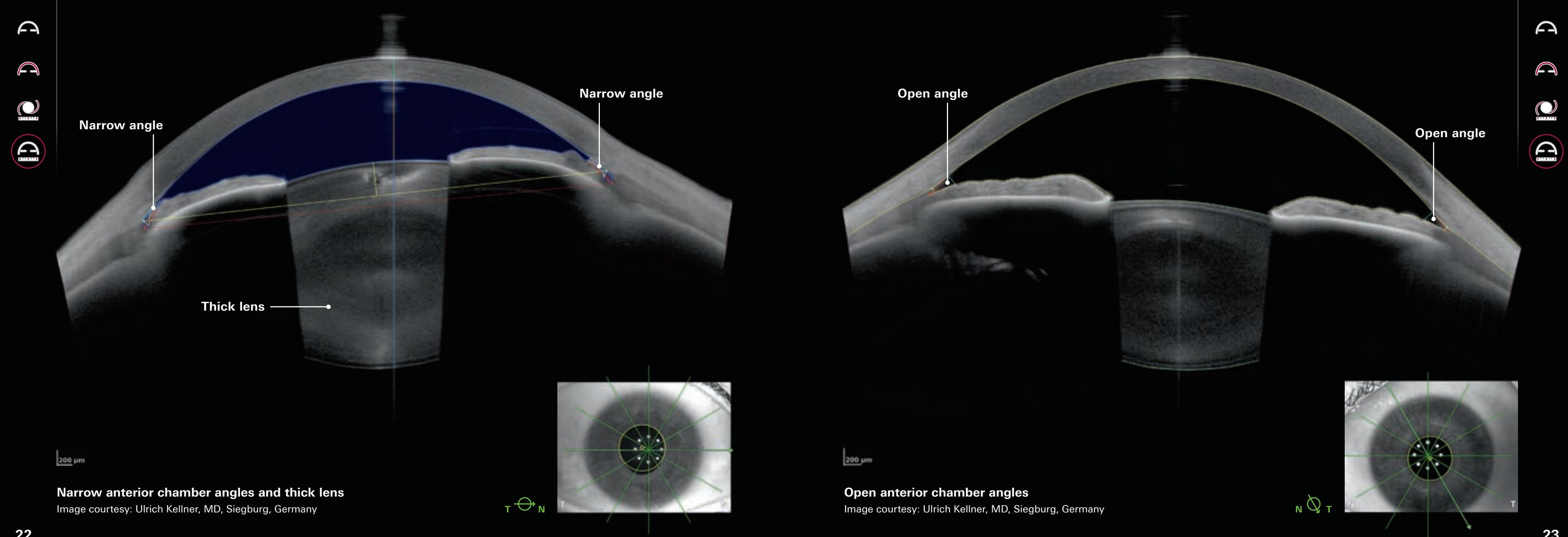
ACA 500



TISA 500



Benefit from anterior segment parameters at a glance using the 360° graphs to optimize your daily clinical routine. The Metrics App features the essential anterior chamber metrics such as aqueous depth, anterior chamber angles (ACA), angle opening distance (AOD), scleral spur angle (SSA), trabecular iris space area (TISA), ACA distance, spur-to-spur distance, central corneal thickness, and white-to-white.





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