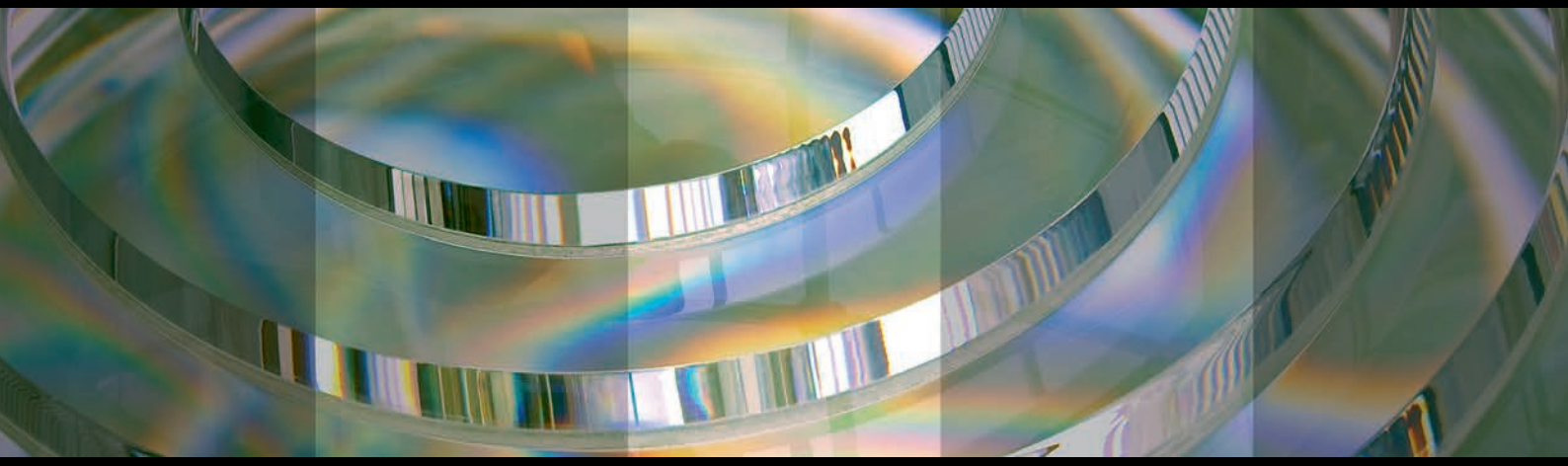
Multimodal Imaging Platform
Optimized for the Anterior Segment



ANTERION®

HEIDELBERG ENGINEERING

ANTERION®

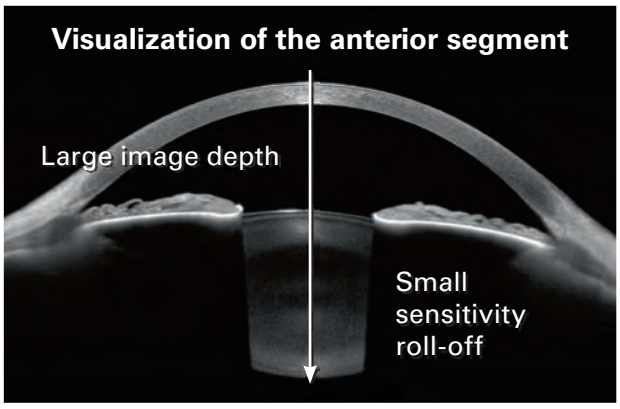
Optimized for the anterior segment

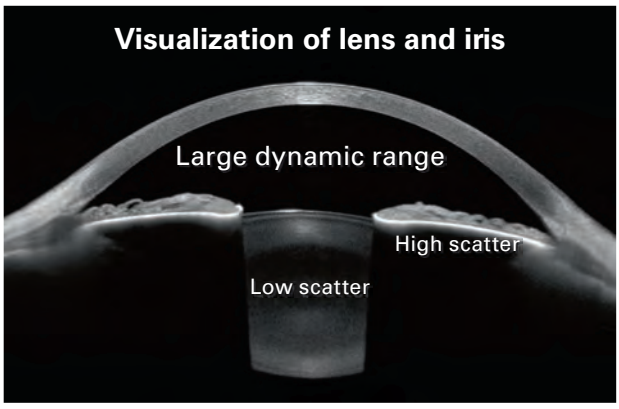
ANTERION® utilizes the power of high-resolution swept-source OCT images to provide the most important anterior segment examinations and measurements in one modular, upgradeable platform. The single workflow-efficient solution brings together corneal topography and tomography, anterior segment metrics, axial length measurement and IOL calculation to transform the day-to-day routine of busy practices and clinics.

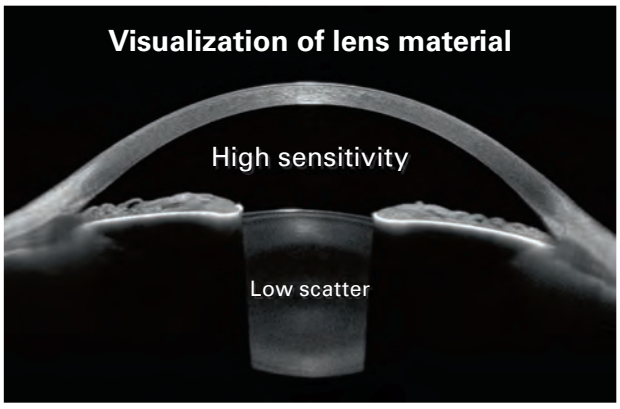
Key benefits

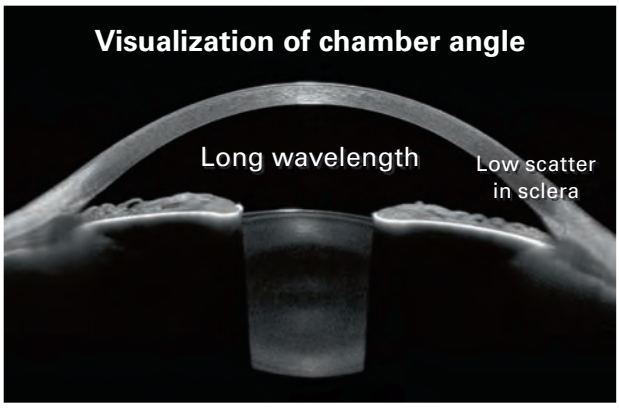
- All measurements based on high-resolution swept-source OCT images
- Modular and upgradeable platform to suit different workflow needs
- Supports the complete ophthalmic image management solution, HEYEX 2

All measurements based on swept-source OCT









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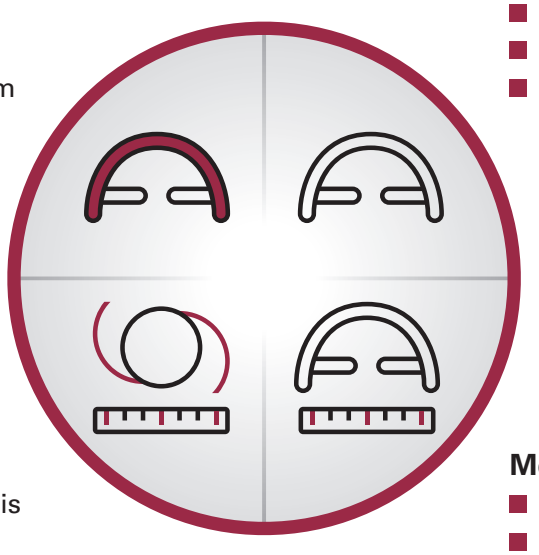
Comprehensive functionality in one device

Cornea App
- Cornea topography
- Cornea tomography
- Total corneal astigmatism
- Total corneal power
- Pachymetry

Imaging App
- Cornea
- Anterior chamber
- Visualization of anterior and posterior lens surface



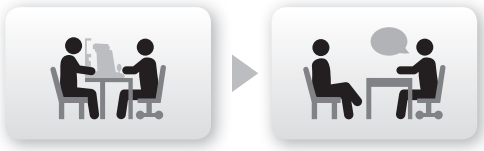
Cataract App
- Axial length
- Cornea analysis
- Anterior chamber analysis
- Lens thickness
- IOL calculation

Metrics App
- Anterior chamber analysis
- Anterior chamber angle assessment

Workflow optimization

The challenge:
The use of multiple devices for each patient examination is time-consuming and puts strain on both operators and patients.

Our solution:
ANTERION combines all these steps into one device. The examination takes just few seconds and can easily be delegated.



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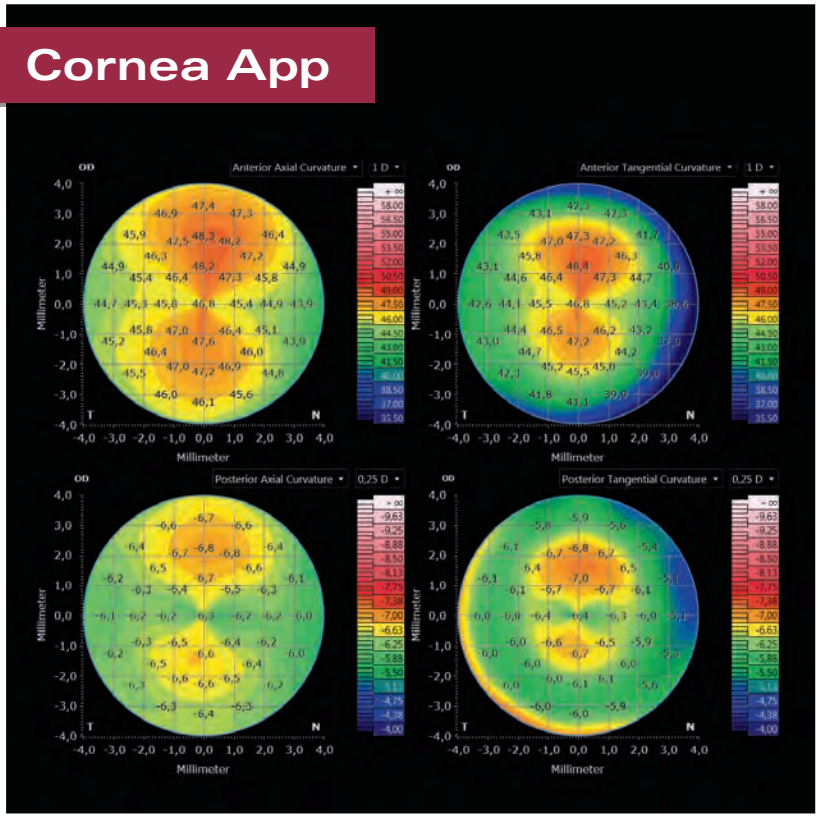
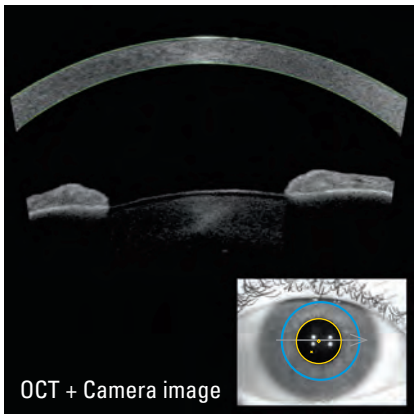
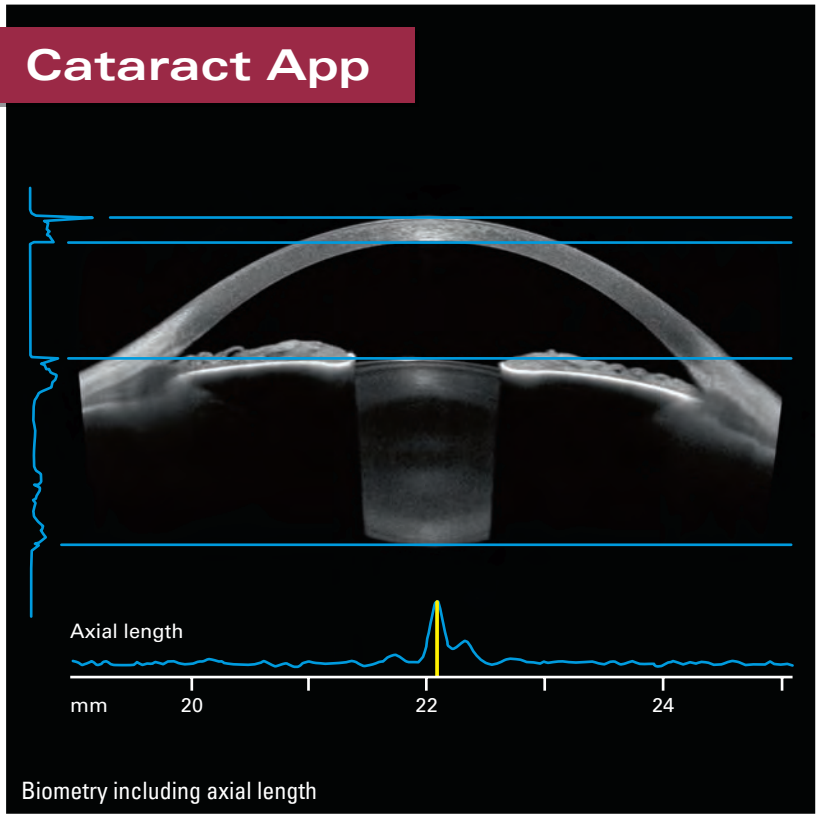
Cornea App



Generate high-resolution images and detailed maps including: camera image, OCT image, anterior and posterior axial curvature maps, tangential maps, elevation maps, total corneal power map, corneal wavefront maps, and pachymetry map.

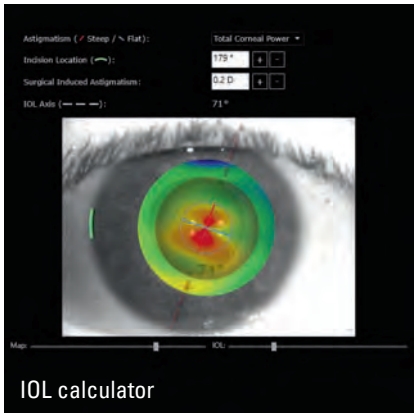

OCT + Camera image

Cataract App



Biometry including axial length

The data obtained in the cornea analysis combined with the anterior chamber depth and width, lens thickness and axial length determines the parameters for IOL calculations. View the camera image and OCT image to confirm your measurements.


IOL calculator

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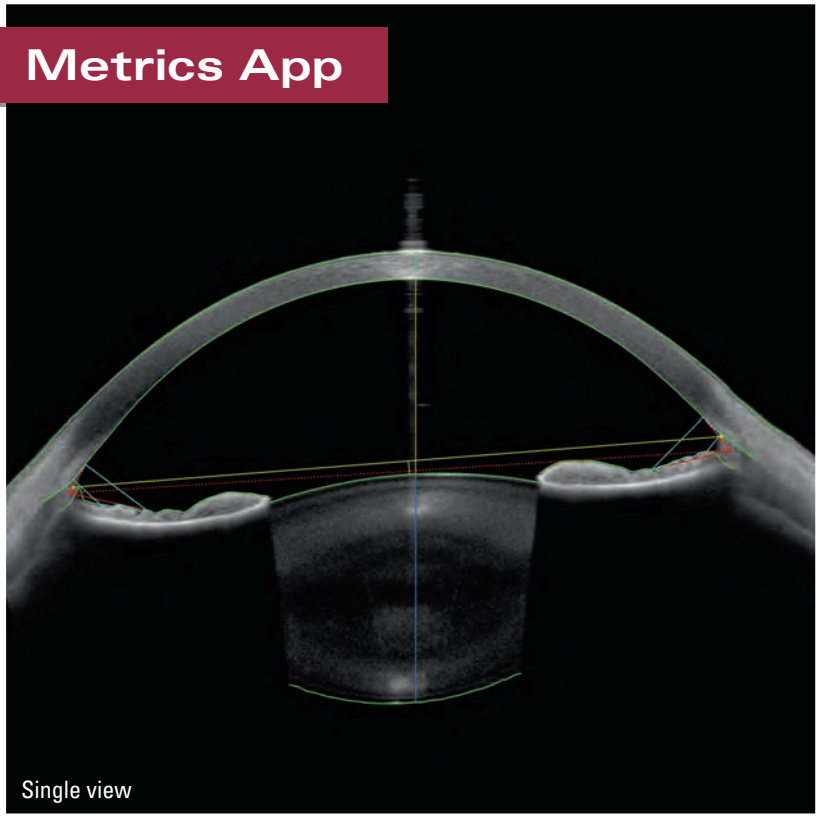
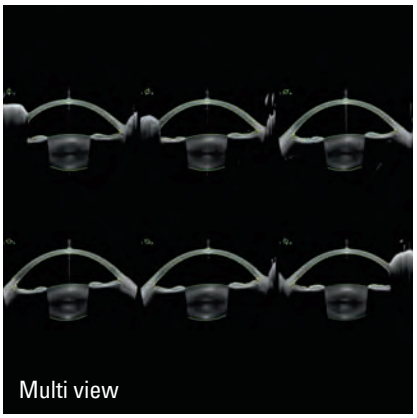
Metrics App



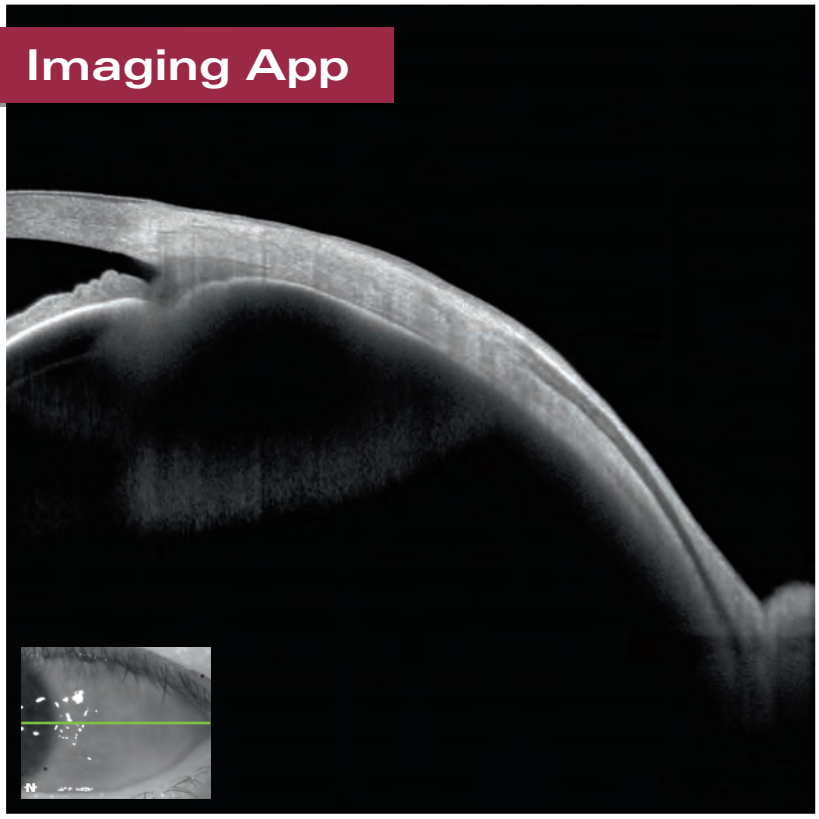
Single view

Measure anterior chamber depth, volume and angle, spur-to-spur, white-to-white and angle opening distances, trabecular iris space area (TISA) and lens thickness parameters all in one App.

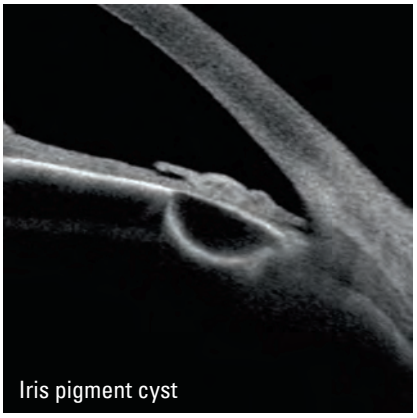


Multi view

Imaging App

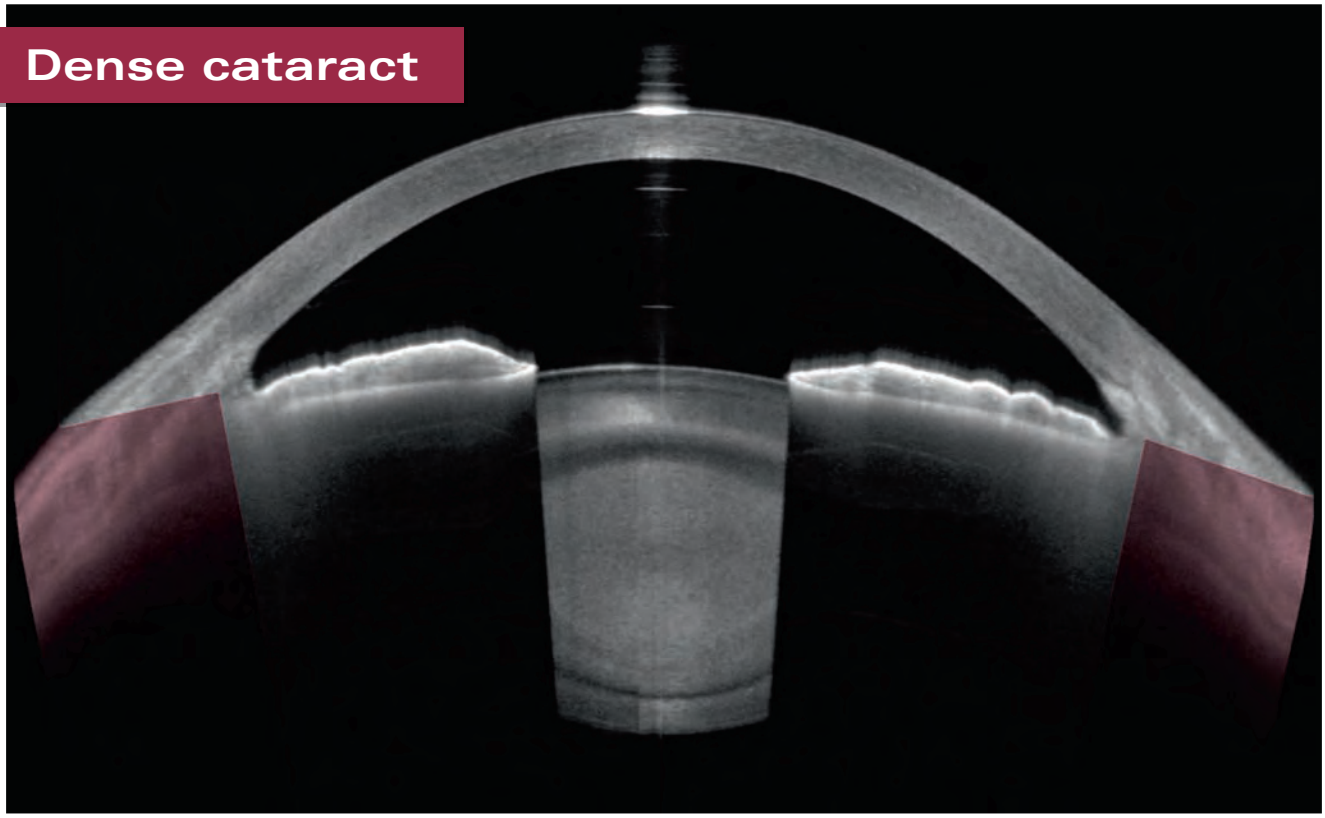


Visualize anterior segment pathologies and signs of surgical interventions, e.g. keratoplasty, LASIK, implanted IOLs and phakic lenses using the versatile anterior segment imaging application.

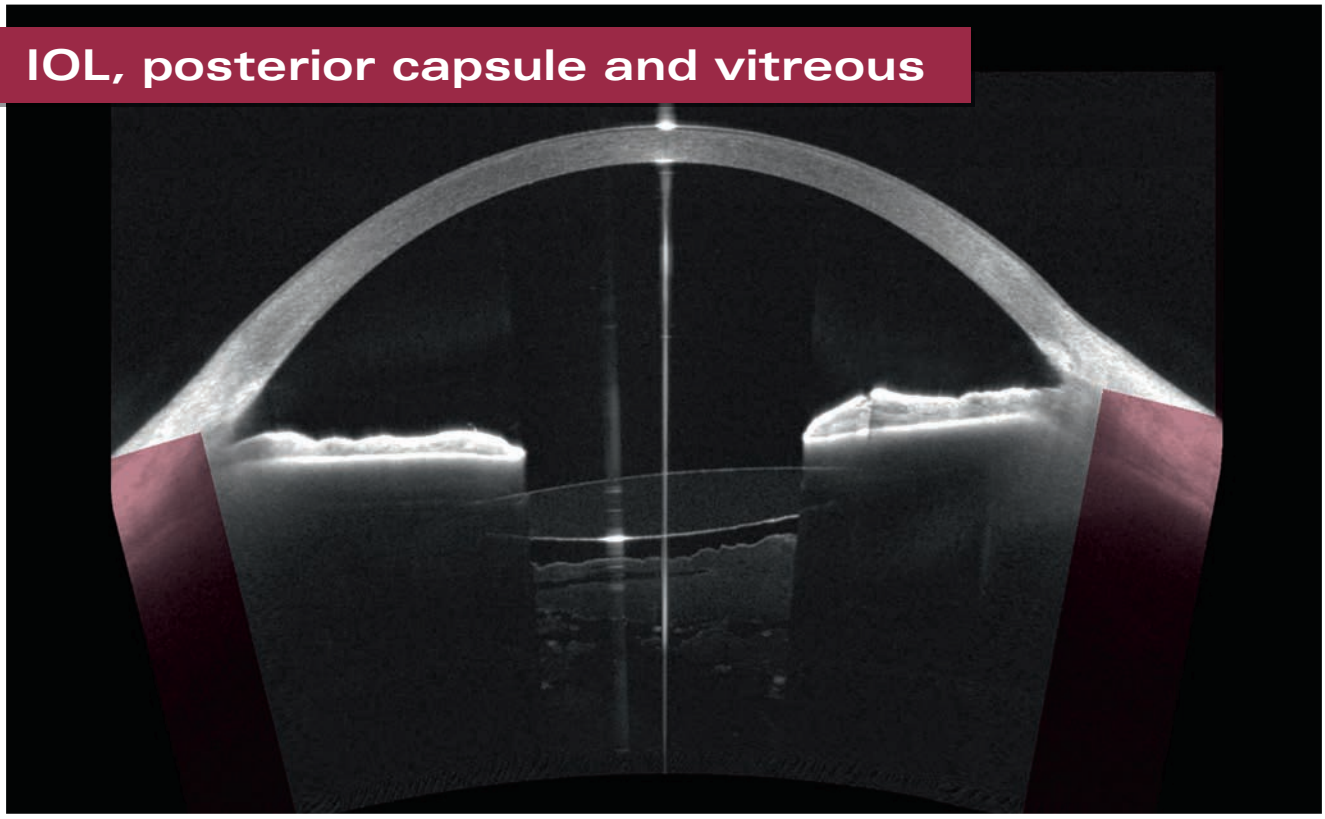


Iris pigment cyst

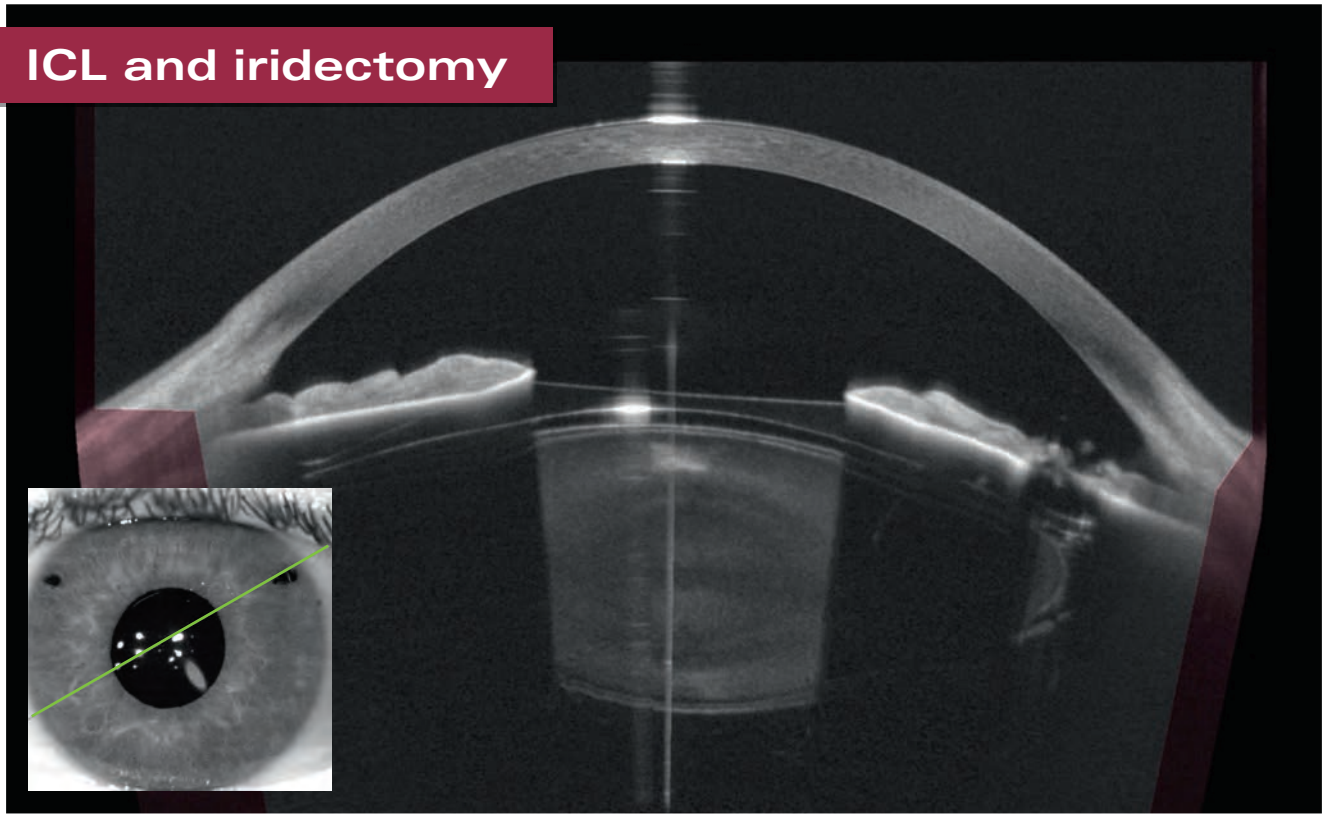
Dense cataract



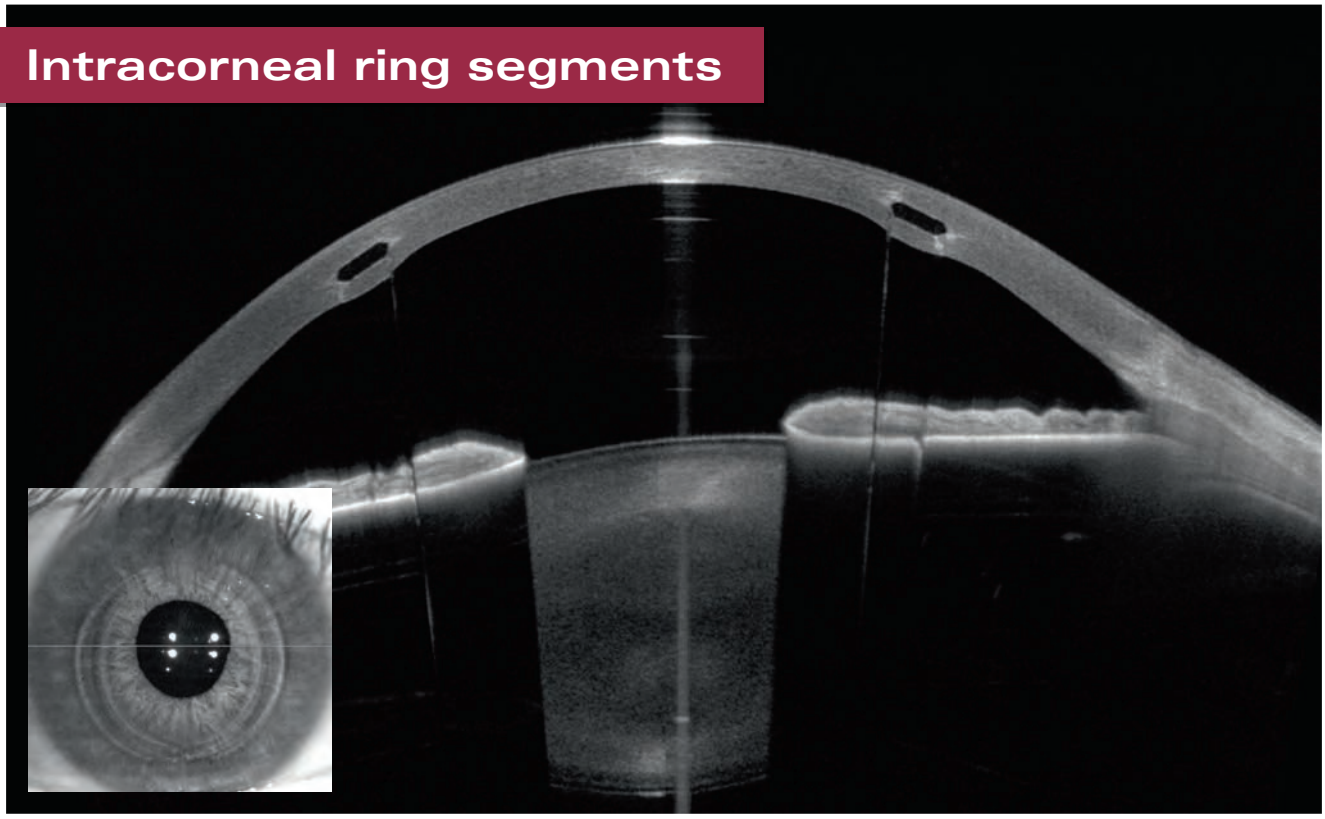
IOL, posterior capsule and vitreous



ICL and iridectomy



Intracorneal ring segments



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