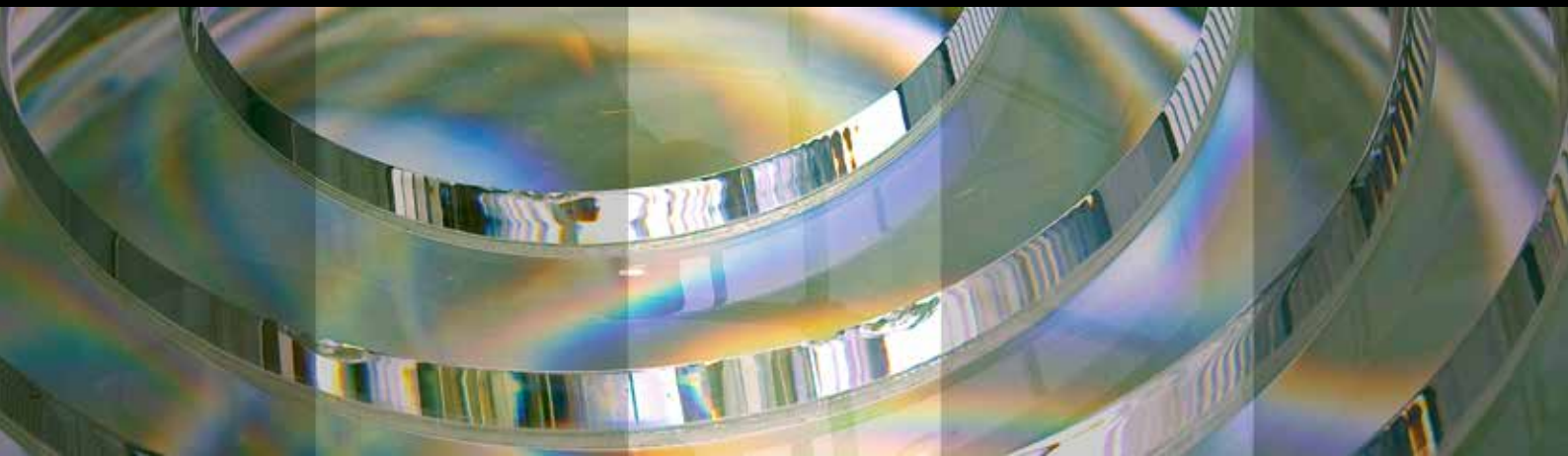


Cataract and Refractive Imaging Platform



**HEIDELBERG
ENGINEERING**

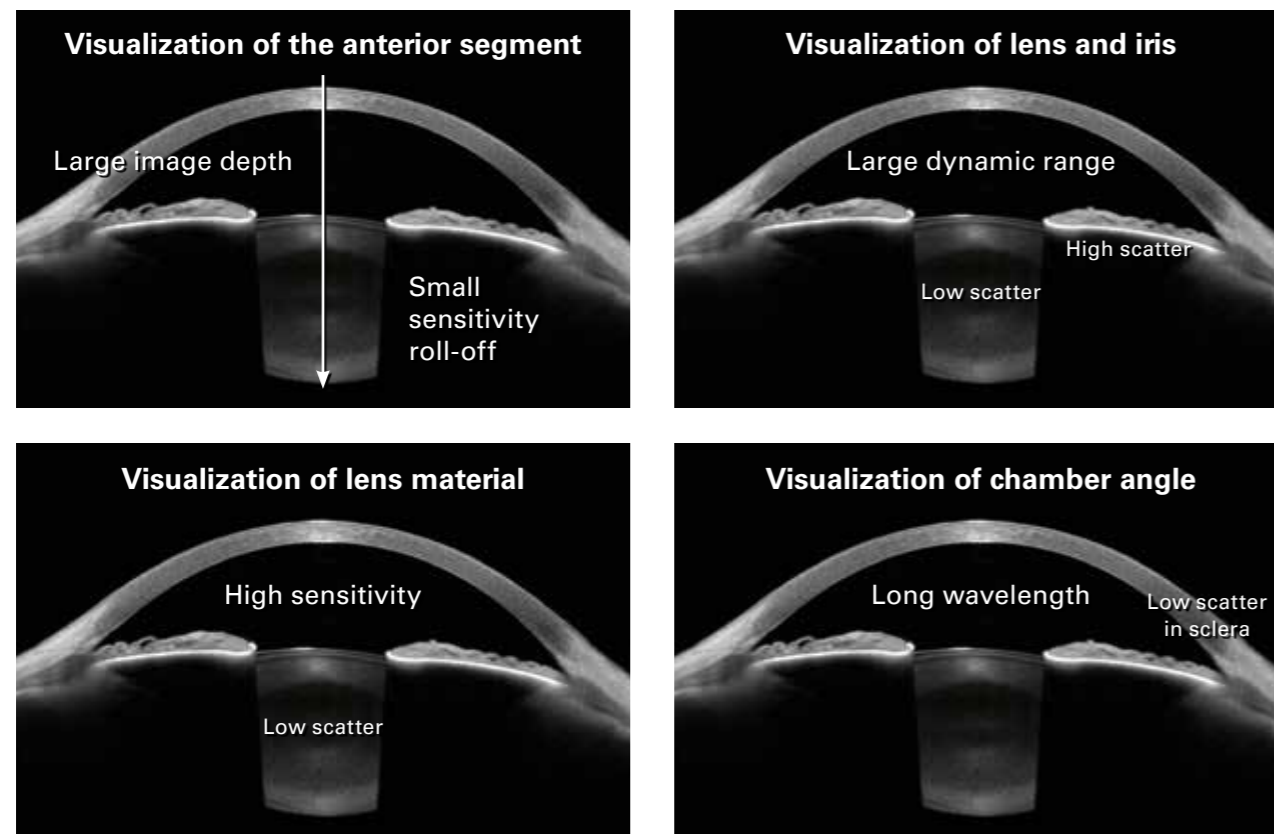
Cataract and Refractive Imaging Platform*

The Cataract and Refractive Imaging Platform utilizes high-resolution swept-source OCT images to combine the most important examinations for anterior segment diagnostics in one modular, upgradeable system. Topography, tomography, anterior segment biometry and axial length in one workflow efficient device.

Key benefits

- All measurements based on high-resolution swept-source OCT images
- Modular and upgradeable platform to suit different workflow needs
- Supported by the next generation HEYEX* for effective image management and IT integration

All measurements based on swept-source OCT

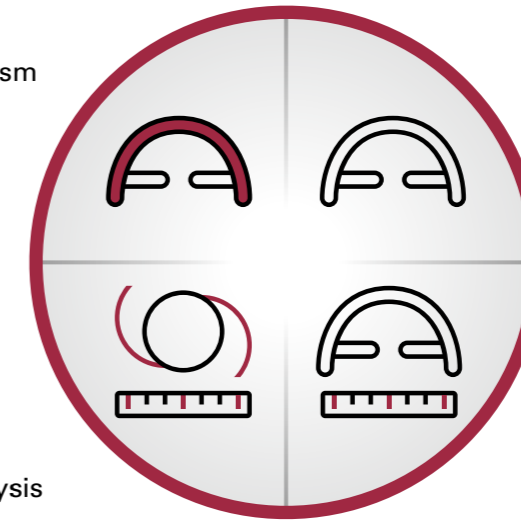


* Under development. Not for sale yet.

Comprehensive functionality in one device

Cornea examination

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



Anterior segment imaging

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

Biometry and IOL calculation

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

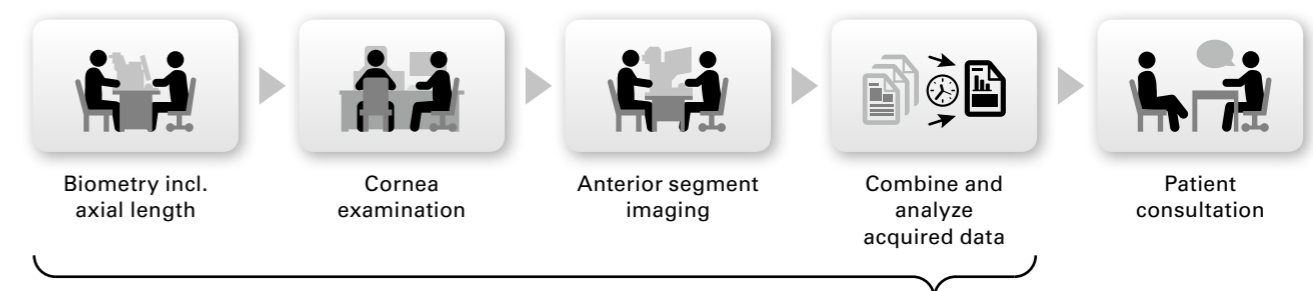
Anterior segment biometry

- Anterior chamber analysis
- Anterior chamber angle assessment

Workflow optimization

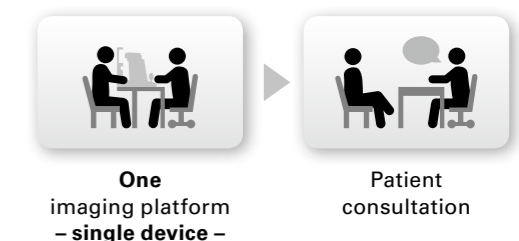
The challenge:

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

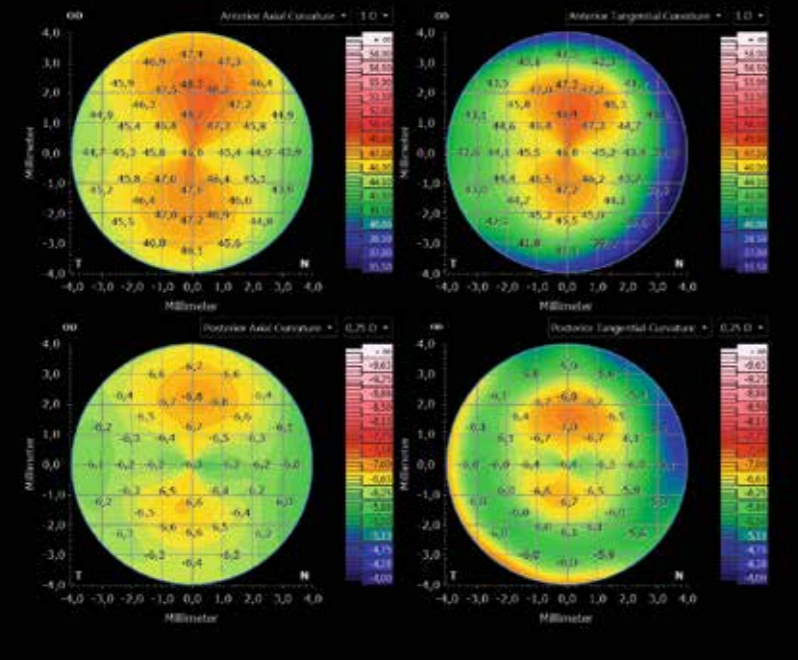


Our solution:

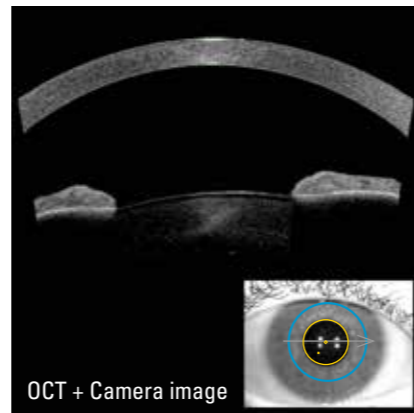
The Cataract and Refractive Imaging Platform combines all these steps into one device. The examination takes just few seconds and can easily be delegated.



Cornea examination

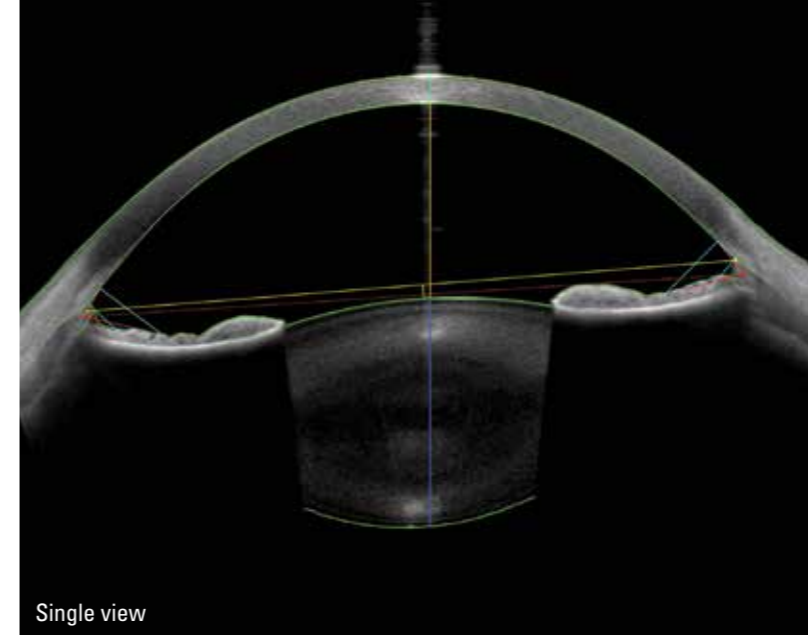


The images and maps generated in this module include: camera image, OCT image, anterior and posterior axial curvature maps, tangential maps, elevation maps, total corneal power map, corneal wavefront maps, pachymetry map, and epithelium map.



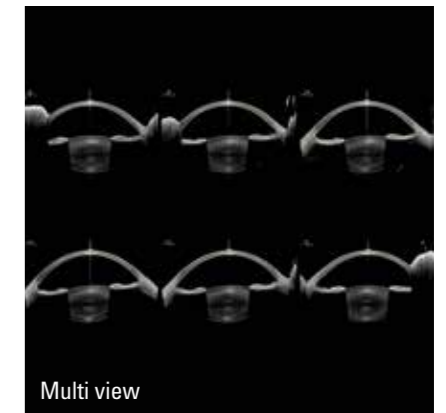
OCT + Camera image

Anterior segment biometry



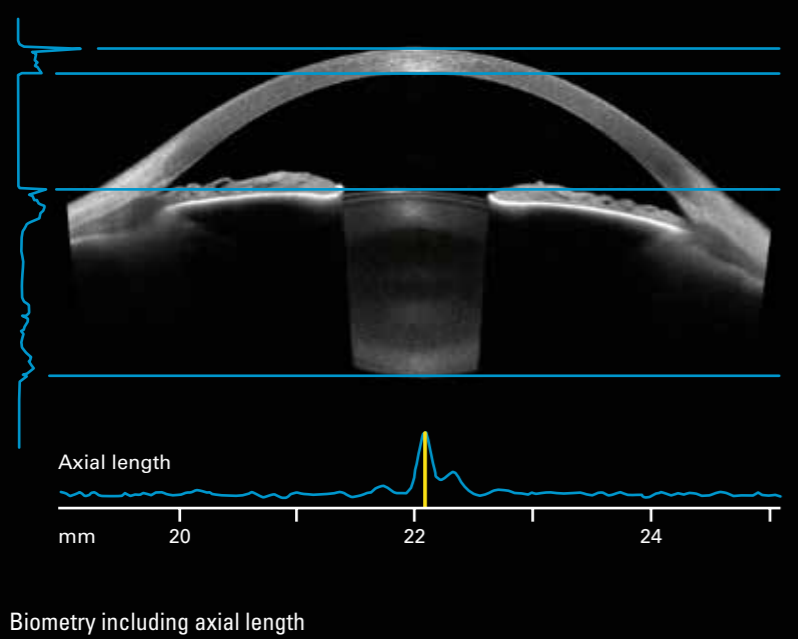
Single view

The parameters measured with this module include: anterior chamber depth, volume and angle, spur-to-spur, white-to-white and angle opening distances, trabecular iris space area (TISA), and lens thickness.



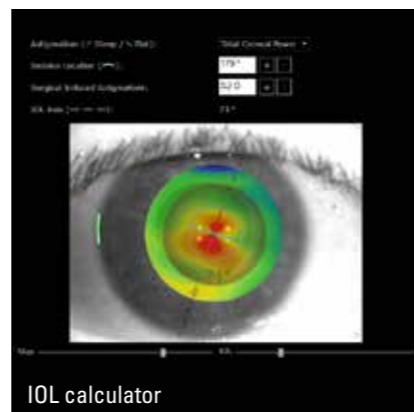
Multi view

Biometry and IOL calculator



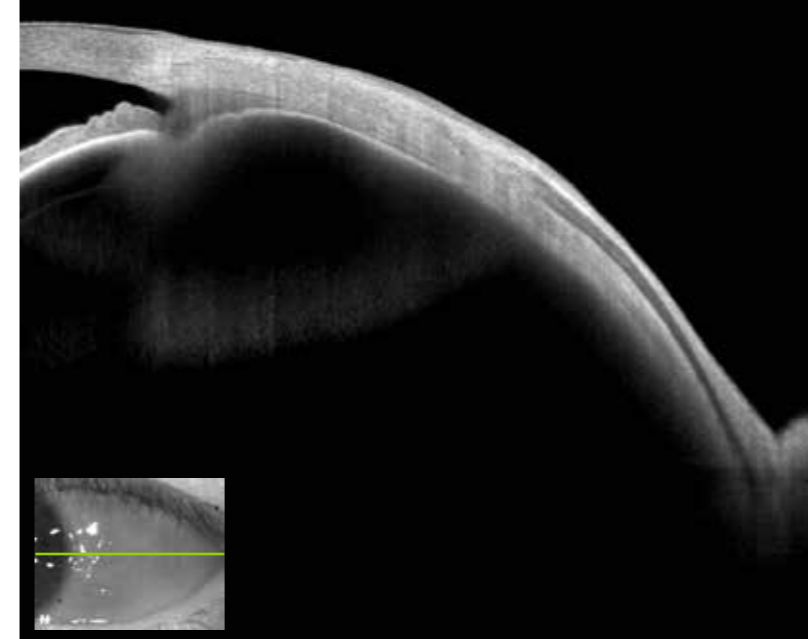
Biometry including axial length

The parameters for IOL calculation utilize the data obtained in the cornea analysis (see above) combined with the anterior chamber depth and width, lens thickness, and axial length. Camera image and OCT image are also available.



IOL calculator

Anterior segment imaging

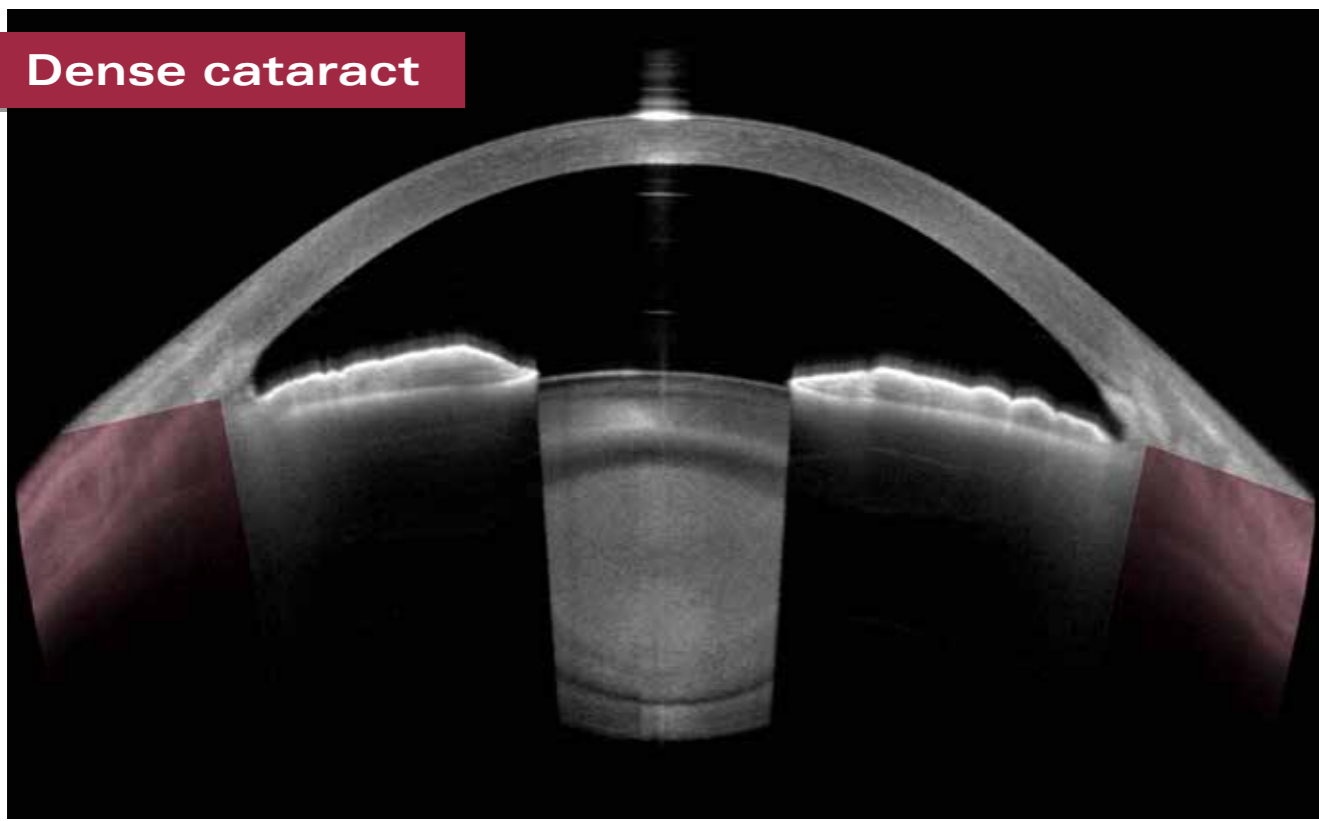


The versatile anterior segment imaging module visualizes anterior segment pathologies and signs of surgical interventions, e.g. keratoplasty, LASIK, implanted IOLs and phakic lenses.

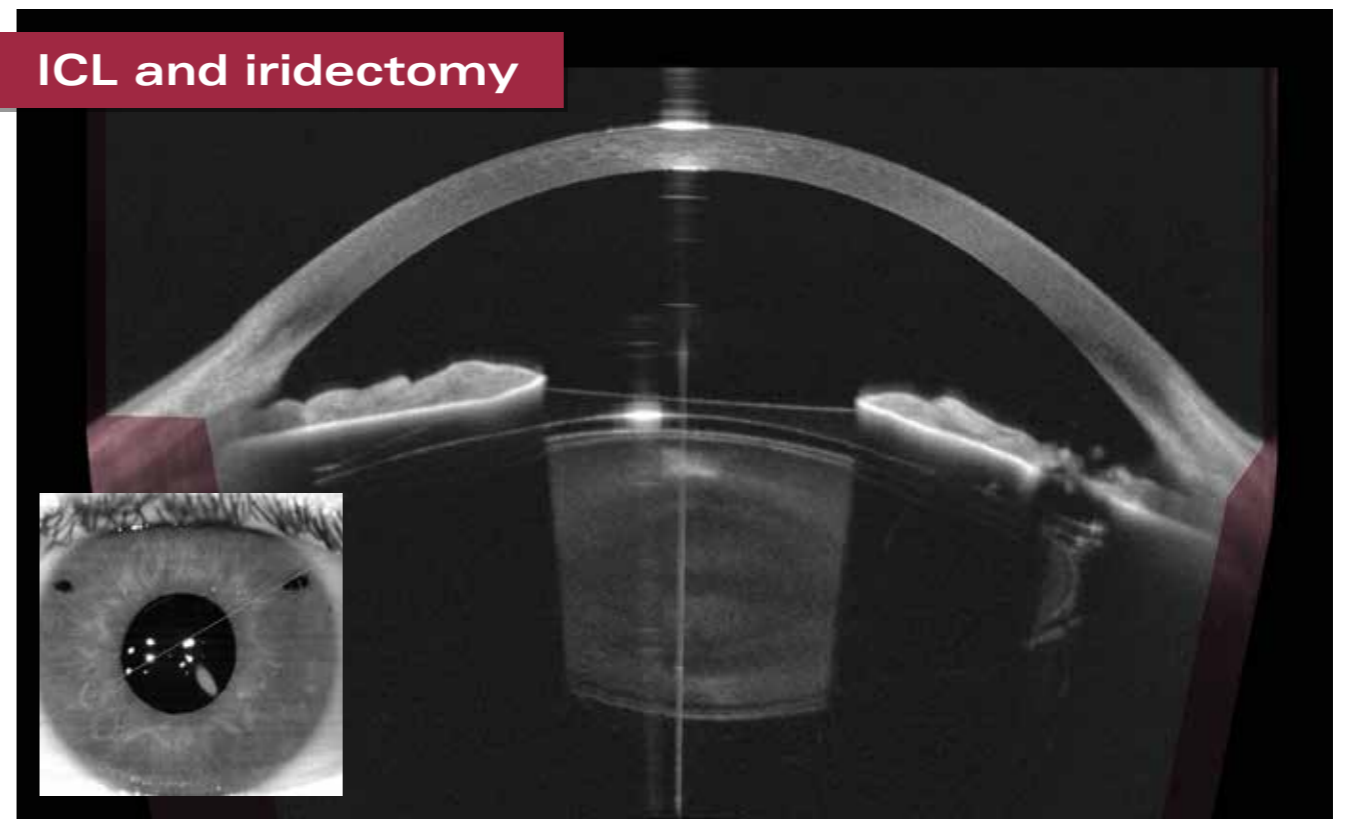


Iris pigment cyst

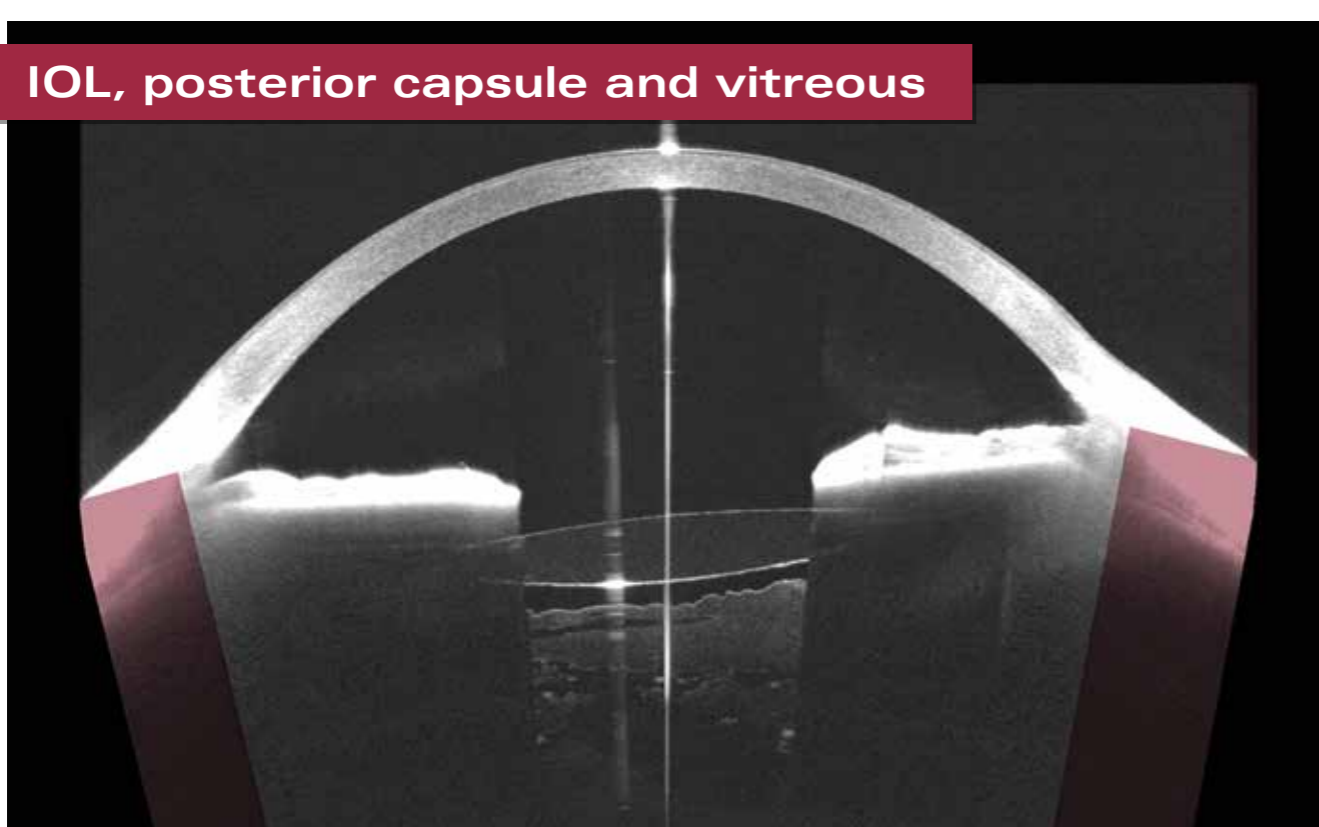
Dense cataract



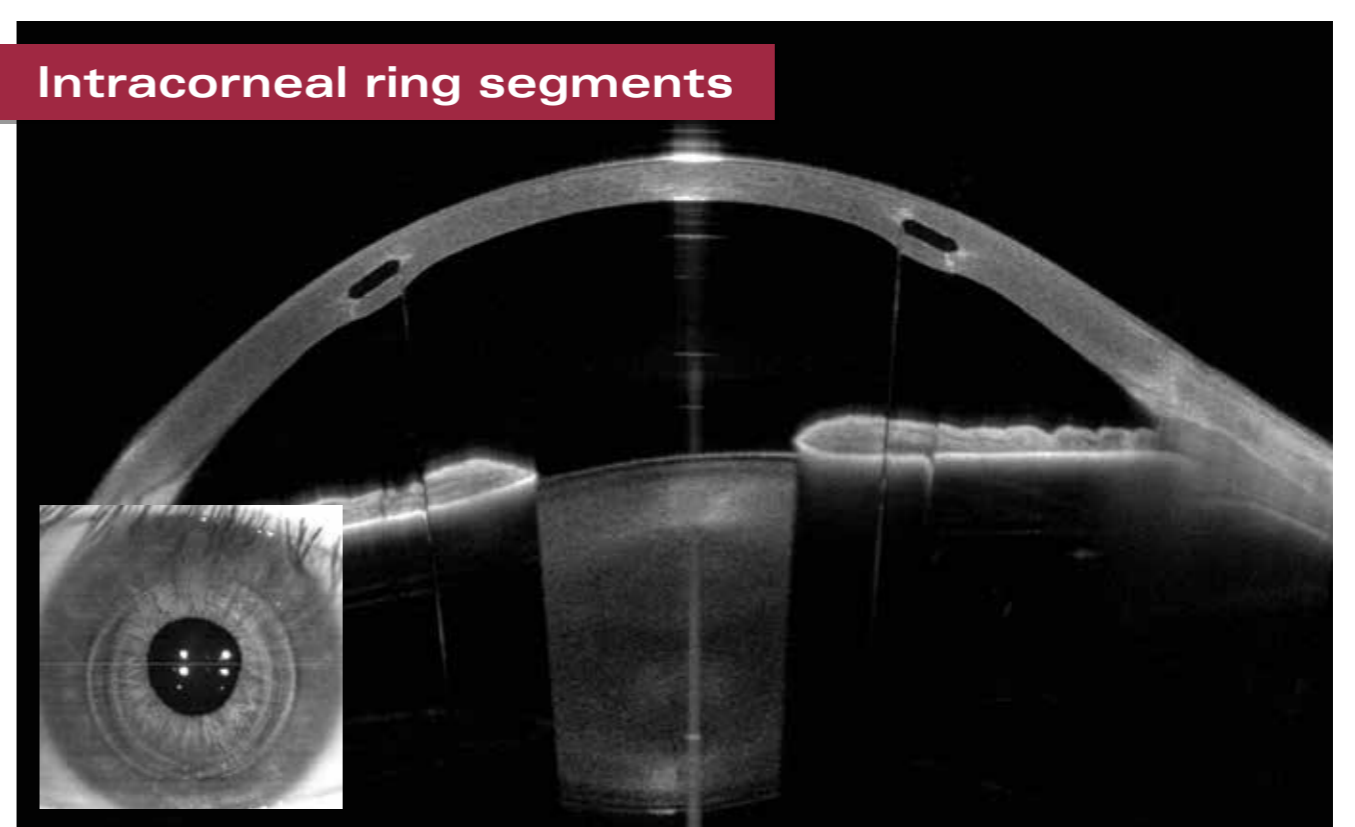
ICL and iridectomy



IOL, posterior capsule and vitreous



Intracorneal ring segments



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