Multimodal Imaging Platform
Optimized for the Anterior Segment

ANTERION®

HEIDELBERG ENGINEERING
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

- Visualization of the anterior segment
  - Large image depth
  - Small sensitivity roll-off
- Visualization of lens and iris
  - Large dynamic range
  - High scatter
  - Low scatter
- Visualization of lens material
  - High sensitivity
  - Low scatter
- Visualization of chamber angle
  - Long wavelength
  - Low scatter in sclera
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.
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.

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.
Metrics App

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.

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.
Dense cataract

IOL, posterior capsule and vitreous
ICL and iridectomy

Intracorneal ring segments