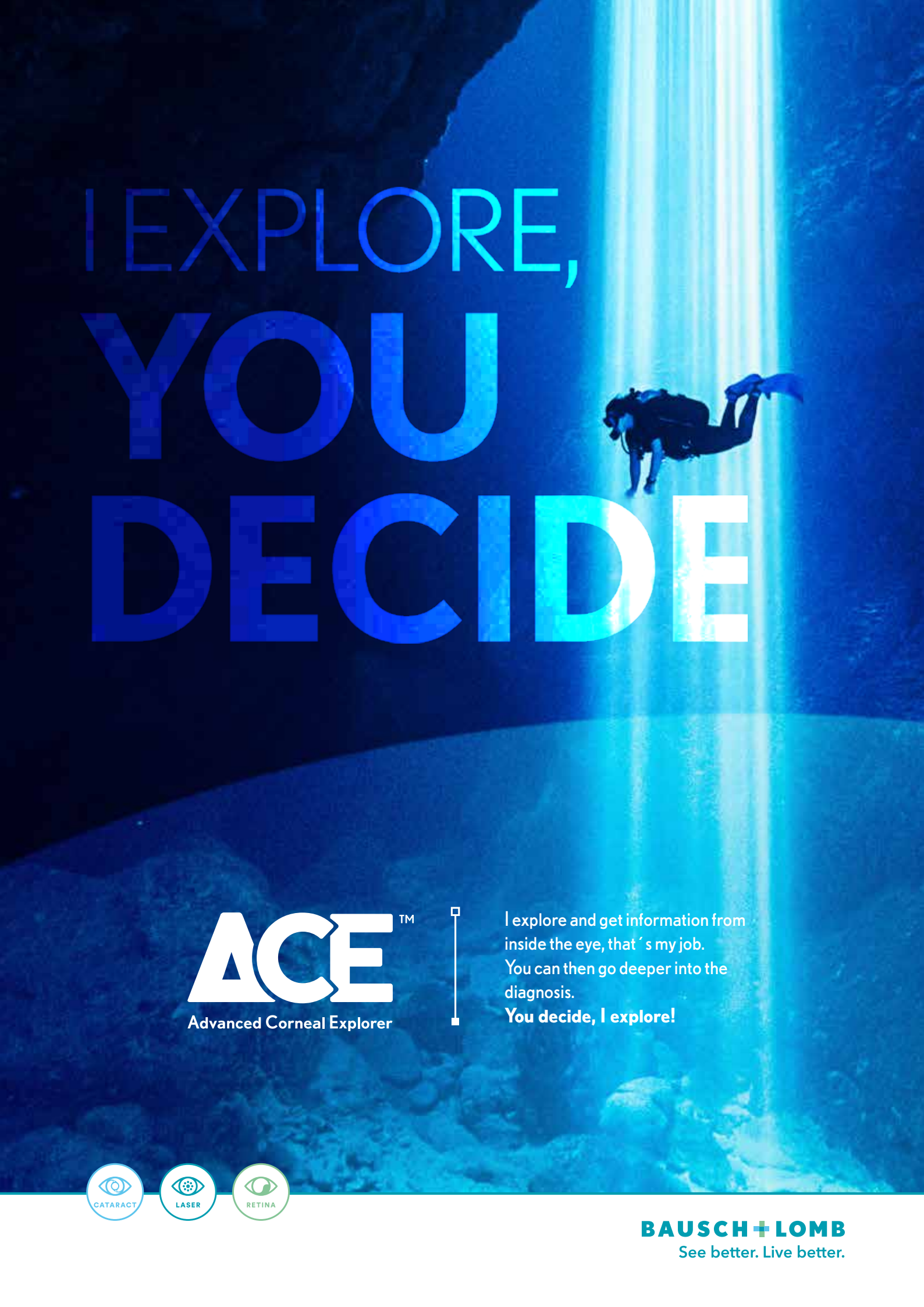


ACE™
Advanced Corneal Explorer

I explore and get information from inside the eye, that´s my job.
You can then go deeper into the diagnosis.
You decide, I explore!

CATARACT LASER RETINA

BAUSCH + LOMB
See better. Live better.

ACE™ Advanced Corneal Explorer* utilizes the power of high-resolution swept-source **OCT imaging technology** to provide the key anterior segment measurements.

Cornea App

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

Cataract App

- Axial length
- Lens thickness
- Aqueous depth
- Central corneal thickness
- Cristallyne lens Anterior axial curvature
- Total corneal power
- Total corneal wavefront
- Spheric and toric IOL calculator
- Several IOL power calculation formulas
- IOL database import

Metrics App

- Anterior chamber angle assessment
- 360° graphs of several chamber angle parameter
- Anterior chamber volume
- Lens vault
- Lens thickness
- Free-hand measurements

Imaging App

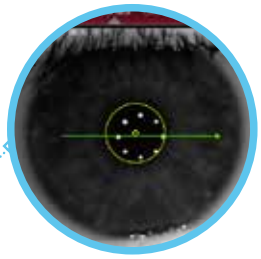
- Anterior chamber and angle imaging
- Corneal and scleral imaging
- Visualization of the lens and both surfaces
- Customizable scan patterns
- Peripheral imaging

CATARACT LASER RETINA

* In the following called ACE™

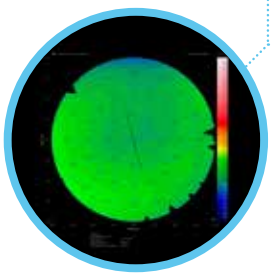
CORNEA

FOR ACCURACY IN **REFRACTIVE SURGERY**



Assess each patient's corneal topography and tomography, including curvature and elevation maps of the anterior and posterior surfaces.

ACE™ acquires 65 high-resolution B-scans for detailed information of the cornea.



ACE™ optimizes the quality of the preoperative data, providing more information to help you to improve the safety of your refractive surgery procedures.[1] It provides a comprehensive solution to determine a patient's individual corneal geometry.

The combination of OCT images and corneal measurements enhances your confidence in the diagnostic accuracy and follow-up of corneal pathologies. **ACE™** also provides valuable support to the choice of the appropriate technique and the planning of refractive surgery.

TECHNOLAS® TENEO™ 317 Model 2 and **ACE™** are the refractive couple for making your life easier.

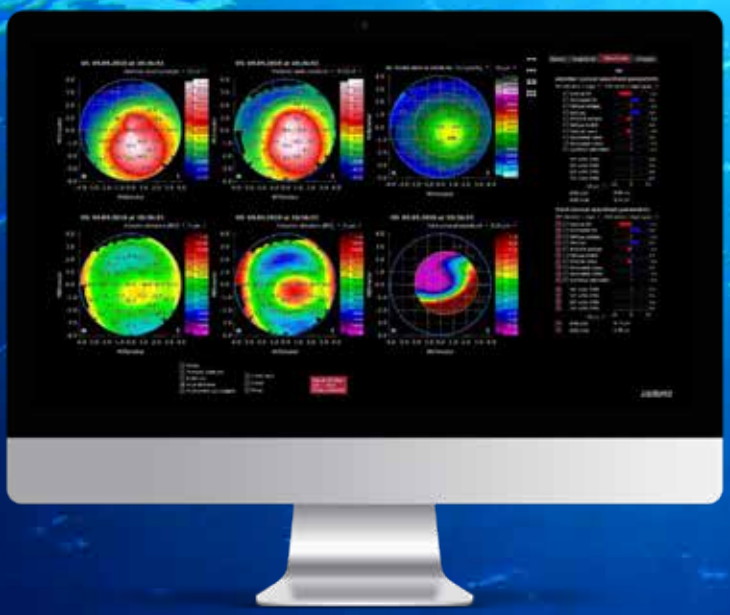
ACE™ and the **TECHNOLAS® TENEO™ 317 Model 2** offer solutions that will refine your results. Transform your daily surgical routine into an exciting day with a platform that brings together corneal topography and tomography, whilst also allowing data transfer between both devices.

Streamline data transfer between **ACE™** and **TECHNOLAS® TENEO™ 317 Model 2** provides data supporting **PROSCAN** treatments with static cyclotorsion compensation based on the iris data.

The picture just shows the acquisition head of the device, not all the ACE™ components

1. Muriël Doors et al. Value of optical coherence tomography for anterior segment surgery. J Cataract Refract Surg 2010; 36:1213-1229 Q 2010

HIGHLY **CUSTOMIZABLE** MAP LAYOUT



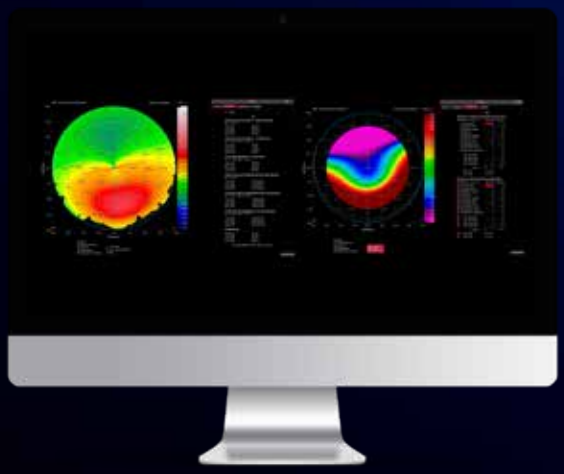
Displays up to 6 maps simultaneously compare OD and OS, or perform an analysis over time.

12 different map types:

- Anterior and posterior axial or tangential curvature
- Anterior and posterior elevation (best fit sphere and best fit torus)
- Pachymetry
- Total corneal power
- Anterior and total corneal wavefront

Two eye image types:

- OCT image
- Camera image



TOTAL CORNEAL **POWER MAP**

KERATOCONUS EYE IN **MULTI-VIEW LAYOUT**

CATARACT LASER RETINA

CATARACT

Data from corneal analysis combined with OCT Biometry data allows for IOL power calculation using different formula.

View the camera image and OCT image to confirm your measurements.

Biometry including axial length

KEY FUNCTIONS

- Axial length
- Lens thickness
- Aqueous depth
- Central corneal thickness
- Cristallyne lens Anterior axial curvature
- Total corneal power
- Total corneal wavefront
- Spheric and toric IOL calculator
- Several IOL power calculation formulas
- IOL database import

IOL calculator

BAUSCH + LOMB
See better. Live better.

METRICS

COMPREHENSIVE DESIGN

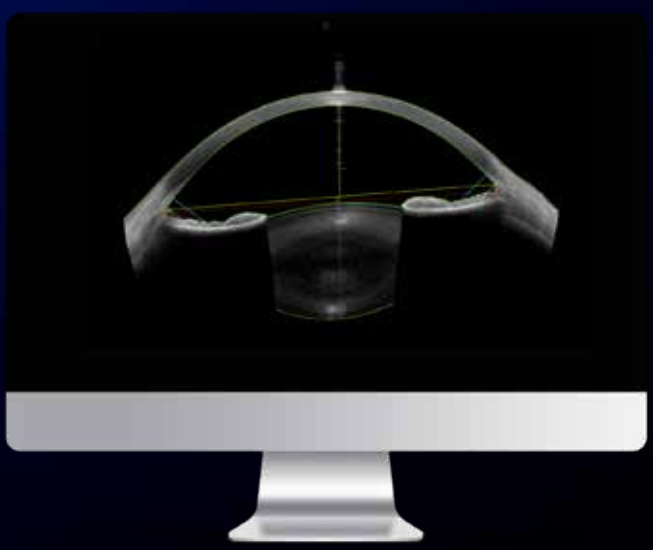
Radial and high-quality tomography allows the measurement of anterior chamber depth, volume and angle, spur-to-spur, white-to-white and angle opening distances, trabecular iris space area (TISA) and lens thickness parameters, all in one App.

KEY FUNCTIONS

- Anterior chamber angle assessment
- 360° graphs of several chamber angle parameter
- Anterior chamber volume
- Lens vault
- Lens thickness
- Free-hand measurements

Multi-view

Single view



CATARACT LASER RETINA

IMAGING

OCT-BASED **CROSS-SECTION OF THE EYE**

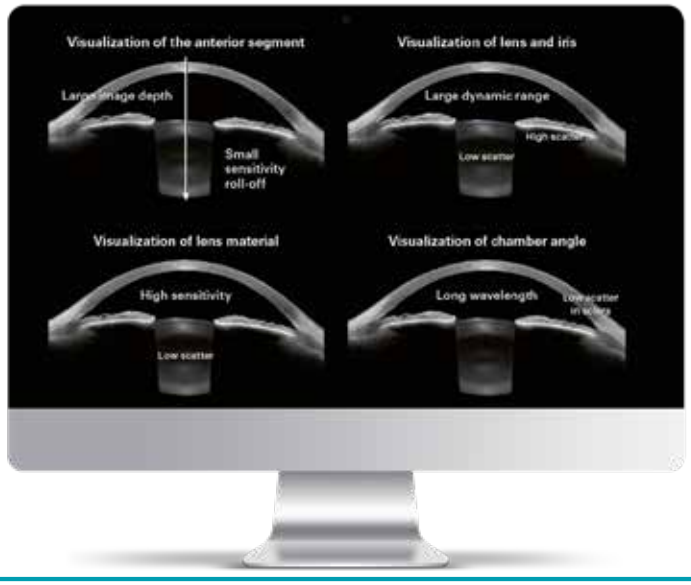
ACE™ is assisting the visualisation of anterior segment pathologies and signs of surgical interventions, such as keratoplasty, LASIK, implanted IOLs and phakic lenses, using the versatile anterior segment imaging application.

KEY FUNCTIONS

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

Integrated eye tracking technology, fast acquisition times* and high-resolution OCT images that are designed to provide visual confirmation of the measurements makes the anterior segment analysis with ACE™ particularly comfortable – for the patient as well as for the user.

HIGH-RESOLUTION SWEPT-SOURCE OCT TECHNOLOGY



* Cornea App < 1 sec. acquisition time

BAUSCH + LOMB
See better. Live better.

BAUSCH + LOMB

See better. Live better.

There's always more to discover. Let's keep exploring.

www.bauschsurgical.eu

@BauschSurgical

Bausch + Lomb Surgical

Legal Manufacturer: TECHNOLAS Perfect Vision GmbH. A Bausch + Lomb Company. Messerschmittstr. 1+3, Munich, Germany

© 2020 Bausch + Lomb Incorporated. All rights reserved.

CATARACT LASER RETINA

EMEA_SU_B_ACE_20_002

BAUSCH + LOMB

See better. Live better.