

# I EXPLORE, YOU DECIDE



**ACE**<sup>TM</sup>

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!**



**BAUSCH + LOMB**  
See better. Live better.



## OCT Technology

The applied technology is swept-source optical coherence tomography.

## Conditions of use

### Ambient conditions

The device is intended to be operated in clinical conditions, i.e. in a closed, reasonably clean examination room. It is not intended to be used in oxygen rich environments and areas where liquids are likely to be found (such as emergency rooms and operating theatres).

### Temperature

+10°C to +35°C

### Relative humidity

10% to 90% non condensing

### Atmospheric pressure

800 hPa to 1060 hPa

### Connections

When in use, the device has to be connected to a single socket-outlet only (no multiple socket-outlet) and has to be connected to the protective earth of the supply mains. Therefore, the supply mains as well as the cable and its connectors must include protective earth connections.

## Acquisition head

### Dimensions

H: 472 mm, W: 317 mm, L: 496 mm

### Weight

18 kg

## Electrical data

### Input voltage

100-120V, 220-240V

### Frequency

50/60 Hz

### Power consumption

250 VA

### Ingress protection rating

IP2X

### Protection against electric shock

Class 1

## Light sources

Power source	Wavelength [nm]	Light source classification
Swept-source laser	1200 - 1400 (infrared)	Class 1 <sup>1</sup>
LED	820 - 890 (infrared)	Group 2 <sup>2</sup>

<sup>1</sup> Laser product classification according to IEC 60825-1. The product complies with 21 CFR 104010 and 104011 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

<sup>2</sup> LED product classification according to DIN EN ISO 15004-2



## OCT imaging specification

<b>CORNEA APP</b>	
A-scan rate	50000 Hz
Image size (in air)	(11±1) mm axially x 9 mm laterally
Resolution (in tissue)	< 10 µm axially x 45 µm laterally
Scan pattern	Radial scan
Number of B-scans	65
Number of A-scans per B-scan	256
Diameter of topographic data	8 mm

<b>CATARACT APP</b>	
see Cornea app	

<b>CORNEA</b>	
<b>AS BIOMETRY</b>	
A-scan rate	50000 Hz
Resolution (in tissue)	< 10 µm axially x 30 µm laterally
Image size (in air)	(14 ± 0.5) mm axially x 16.5 laterally
Scan pattern	Line scan
Number of B-scans	1 (averaged)
Number of A-scans per B-scan	768
Axial length range	14 - 32 mm

<b>METRICS APP</b>	
A-scan rate	50000 Hz
Resolution (in tissue)	<10 µm axially x 30 µm laterally
Image size (in air)	(14 ± 0.5) mm axially x 16.5 laterally
Scan pattern	Radial scan
Number of B-scans	6 (averaged)
Number of A-scans per B-scan	768

<b>IMAGING APP</b>	
A-scan rate	50000 Hz
Resolution (in tissue)	<10 µm axially x 30 µm laterally
Image size (in air)	(14 ± 0.5) mm axially x 16.5 laterally
Scan pattern	Line scan, Volume scan, Arc scan, Radial scan
Number of B-scans	Personalized per scan pattern (e.g. various options for the number of B-scans, number of A-scans per B-scan, number of averaged scans per B-scan, scan length, scan height, scan arc)

## Connections

For data-transfer to the TECHNOLAS 317 TENEO™ Model 2, the ACE connects to the Database Server Unit via an Ethernet cable.



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 @BauschSurgical

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Contact your BAUSCH + LOMB  
representative to learn more about

[www.bauschsurgical.eu](http://www.bauschsurgical.eu)

