

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.

Dimensions

472 x 317 x 496 mm

Weight

18 kg

Electrical data

Input voltage

100-120V, 220-240V

Frequency

50/60 Hz

Power consumption

250 VA

Measurement range

Pupil diameter

No limitations

Measurable curvature of cornea

min. 6.5 - 9.5 mm

OCT images

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

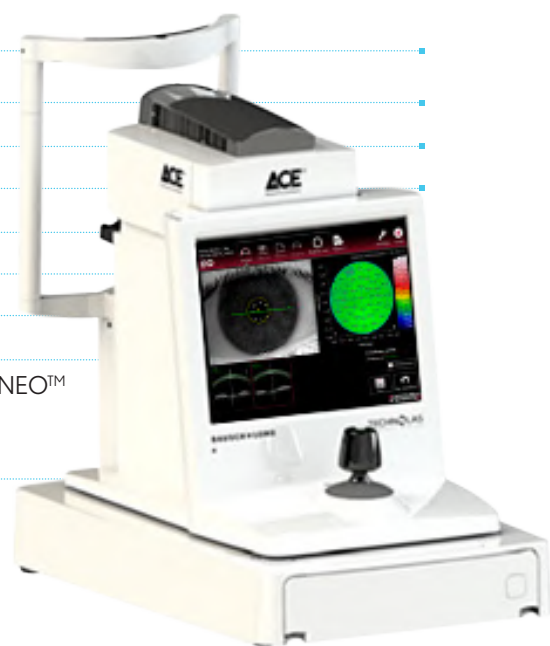
256

B-scan length

8 mm

Connections

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



I EXPLORE, YOU DECIDE



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!



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