

## Specifications



### MEASUREMENT RESOLUTION

Axial (Depth)	10 µm or less (in tissue)
Transverse	30 µm or less (in air)

### MEASUREMENT SCAN RANGE

Depth	13 mm
Transverse	Radial scan: Ø 16 mm Raster scan: 12 × 12 mm

### MAIN UNIT

Scan rate	50,000 A-scans/second
Type of light source	Swept laser source
Laser source wavelength	1,310 nm

### AUXILIARY FUNCTION

Stroke range of moving section	40 mm (y-axis); 88 mm (x-axis); 43 mm (z-axis)
Stroke range of chin rest	70 mm

### WORKSTATION COMPUTER

External HDD	8 TB or more
OS	Windows®10 64 bit
CPU	Intel® Core i5
Memory	8 GB or more
SSD	128 GB
HDD	8 TB or more
Data output	Printer (LAN, USB)
Display	Touch panel LCD monitor 20" or larger

### DIMENSIONS AND ELECTRICAL REQUIREMENTS

Dimensions WDH	530 x 560 x 455 mm
Weight	approx. 33 kg
Voltage	100 VAC to 240 VAC
Frequency	50/60 Hz
Power consumption	170 VA
Power output	Less than 6 MW
Laser class	Class 1

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## Precision meets innovation

The amazing technology behind CASIA2 makes it so comfortable to work with. You will get not only detailed results from various perspectives, but also an excellent user experience.

- + Testing application for cataract/glaucoma/cornea surgery
- + Special glaucoma analysis (STAR 360°)
- + Advanced imaging with deep scanning depth (13 mm)
- + Very fast scanning speed (50,000 A-scans/second)
- + Corneal topography, trend analysis, IOL choice and calculation
- + Lens shape analysis incl. tilt and decentration
- + Phakic IOL simulation
- + ICL Pre- and Post-OP application
- + Colour fixation camera

# CASIA2

Cornea/Anterior Segment OCT

**You + eye.**  
We care.

# CASIA2

## Cornea/Anterior Segment OCT

The CASIA2 provides an impressive user experience with intuitive operation and automation, supported by an unbelievable measurement speed (a topographic image is captured in just 0.3 seconds). Our software guides you through measurement, analysis and the final report. Get inspired now and see the eye from a different perspective.



"CASIA2 IS SUCH A FANTASTIC PRODUCT. NEXT TO ALL ITS POSSIBILITIES IT BRINGS SO MUCH MORE COMFORT TO BOTH PATIENT AND DOCTOR."

*Kathrin Benedikt*

AREA SALES MANAGER,  
WESTERN EUROPE / EUROPE



### Cataract Application

The special Pre-OP Cataract application guides you towards the ideal preparation for your cataract surgery. It displays essential and necessary screening parameters for your preferred IOL choice.

The Post-OP application clearly visualises and documents the quality of your cataract surgery and provides you more information evaluating the outcome of your cataract surgery. The colour camera enhances the check for toric IOL's by seeing the toric markers in different options for correct positioning of your toric lens. Furthermore, another scan type is added for the Post-OP Cataract application (IOLSCAN), which enhances the view on the IOL tremendously.

### Total Analysis

Anterior segment images and parameters of both eyes can be verified at a glance. In addition to the conventional pre- and post-operative examinations, CASIA2 can be used for daily clinical operation such as initial examination, follow-up treatment and obtaining informed consent. Each parameter is colour-coded to call attention if there is a difference between the left and right eye, or if it is within a specified range.

### Pre-OP ICL

With two different integrated size recommendation formulas, this application enables the doctor to confirm the correct sizing for ICL surgery.

### Post-OP ICL

The Post-OP ICL movie function\* controls the dynamic vault and shows the vault under mydriasis and miosis conditions as well as the relevant vault range difference. A fantastic tool for a proper quality check.

\*available from version 60  
Reference study: "Dynamic Assessment of Light-Induced Vaulting Changes of Implantable Collamer Lens with Central Port by Swept-Source OCT: Pilot Study" Dr. Felix Gonzalez-Lopez; Madrid, Spain.

### Cornea Application

A topographic image is taken only in 0.3 seconds, providing high-quality images with no artifacts. The cornea can be displayed in different map types in a wide range of individual settings, either in 10 mm or 16 mm diameter. Scleral lens fitting is much easier than before.

### Epithelium Map Application

With the detailed epithelium map,\* also available in sectors, the topography function is now more enhanced and provides advanced support for your treatment.

### STAR 360° & Glaucoma Application

With our STAR 360° application, the CASIA2 automatically measures the anterior chamber angles all around the anterior segment – thanks to its automatic scleral spur detection. It provides you with specific parameters needed to detect and treat glaucoma. With the added function "Narrow Angle Index"\* you immediately receive data about a possible narrow angle plus a referring index based on normative data.

\*available from version 60, optional feature "STAR Analysis software"

