One vision, Two sharp eyes
with Our Innovation

CASIA2

Cornea / Anterior Segment OCT

CASIA2 **SPECIFICATIONS**

- Advanced Imaging
  Deeper, wider and clearer
- Testing application for cataract surgery
- Fulfilling Analysis Function
  Trend analysis
  Lens shape analysis

[Measurement Performance]

Resolution	Axial (Depth)	10μm or less (in tissue)
	Transverse	30μm or less (in air)
Scan range	Depth	13mm
	Transverse	Radial Scan: φ16mm
		Raster Scan: 12mm×12mm

[Main Unit]

Scan rate	50,000 A scans / second
Stroke range of moving section	40mm(Y axis); 88mm(X axis); 45mm(Z axis)
Stroke range of chin rest	70mm
Dimensions and Weight	530(W)×560(D)×455(H)mm Approx. 33kg
Type of light source	Swept source Laser
Wavelength	1,310nm
Output power	Less than 6mW
Laser Class	Class 1

[Power source]

Voltage	100～240V AC
Frequency	50 / 60Hz
Power consumption	170VA

[External HDD]

Capacity	8TB or more

[Touch panel LCD monitor]

Display	Touch panel LCD monitor 20 inches or larger

[Workstation computer]

OS	Windows®8.1 or 10 64bit
CPU	Intel® Core i5
Memory	8GB or more
SSD	128GB
HDD	8TB or more
Data output	Printer (LAN/USB)

TOMEY

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CASIA2

Cornea / Anterior Segment OCT

Efficient support of cataract surgery

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TOMEY

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CASIA2

Cornea / Anterior Segment OCT

Efficient support of cataract surgery

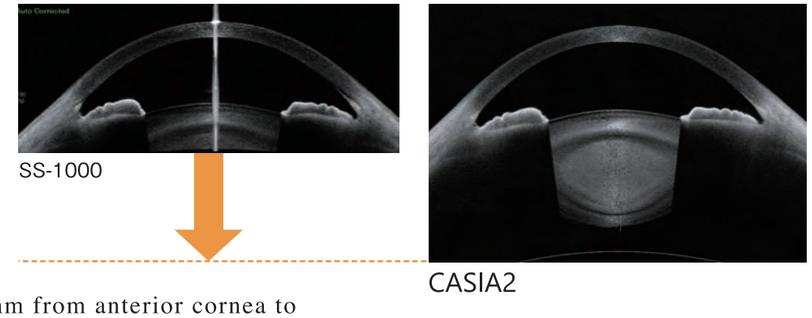
The next-generation Cornea / Anterior Segment OCT “CASIA2”, will advance cataract surgery

Advanced Imaging

Cornea and lens shown in one image

Deeper Imaging

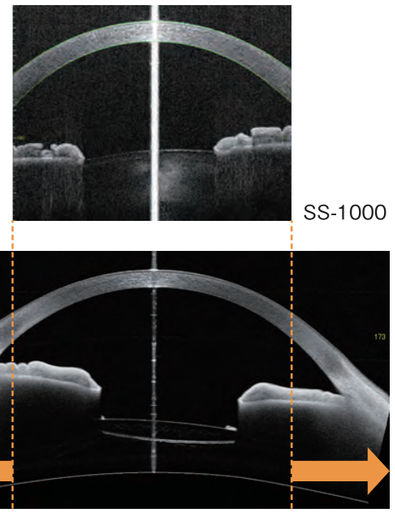
With CASIA2, the light source of coherency functions is improved, and higher sensibility toward depth is realized compared to our former model. By using this new technology, it is possible to measure to a depth of 13mm from anterior cornea to posterior lens with one shot.



Wider Imaging

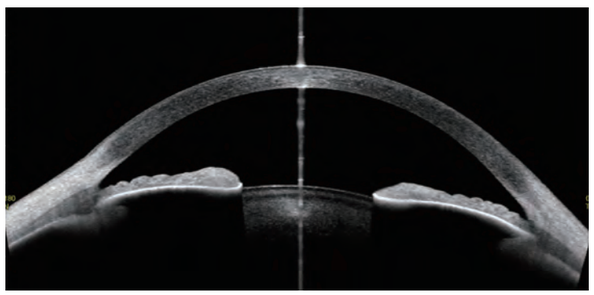
Capturing images around the angle is possible in corneal topography mode. As with corneal shape analysis, it is possible to extract and analyze the angle and observe the IOL, which enables testing without switching measuring modes.

**For lens shape measurement, LensBiometry capture is necessary.*



Clearer Imaging

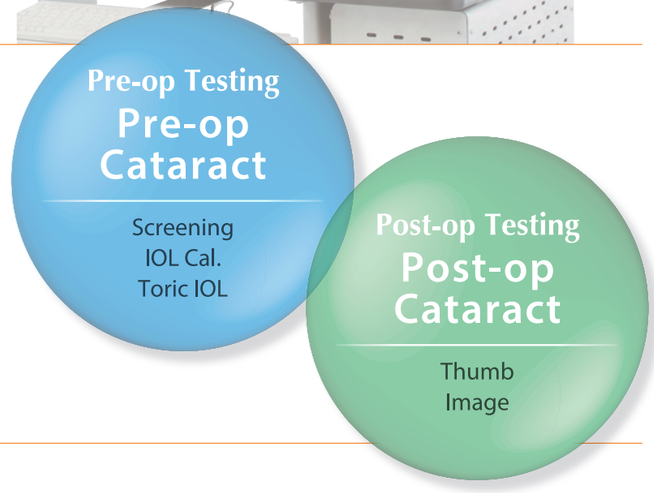
By scanning 16 images simultaneously, clearer images are obtained.



CASIA IOL Cataract Surgery

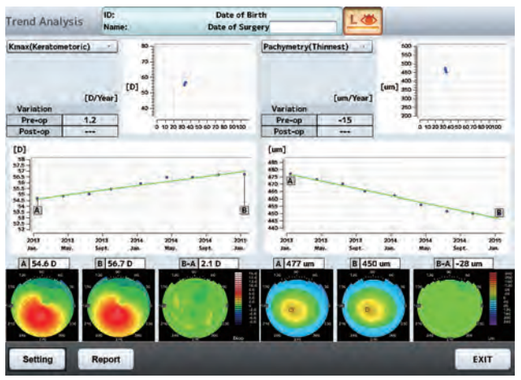
CICS

The testing application for cataract surgery, CICS, is installed in the CASIA2, which effectively supports cataract surgery. There are two types in CICS: “Pre-op testing” and “Post-op testing”. To use their functions, capture the image within each testing protocol.



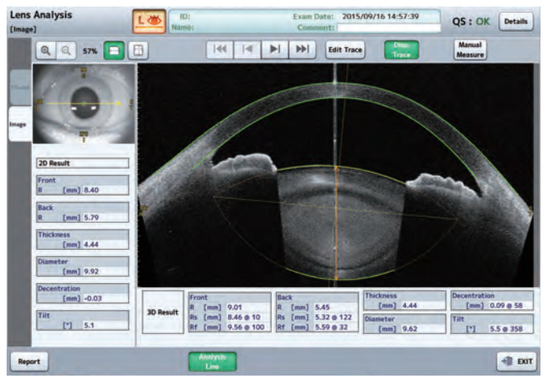
Fulfilling analysis functions

Trend Analysis



The color code map shows parameter changes of each corneal shape. Additionally, the simplicity of the graph means information is instinctively easy to grasp making this analysis useful for observing the keratoconus.

Lens Shape Analysis



While capturing anterior cornea to posterior lens, it is possible to measure corneal curvature, thickness and tilt of the anterior / posterior lens.