

FOURIER DOMAIN OCT CASIA2

3D SWEPT SOURCE OCT

DELIGHT IN SIGHT

Combines experience and progress.
Amazingly fast and easy to handle.



- Testing application for Cataract / Glaucoma / Cornea Surgery
- Glaucoma angle analysis (360°)
- Advanced imaging with deeper scanning depth (13 mm) and faster scanning speed (50.000 A-scan/sec)

- Corneal topography + IOL choice & calculation
- Lens shape analysis & trend analysis
- Phakic IOL simulation

 **TOMEY**
TECHNOLOGY AND VISION

THE TOMEY **FOURIER DOMAIN OCT CASIA2** 3D SWEPT SOURCE OCT



QUALITY IN DETAIL

With our long experience in the field of OCT we have developed an outstanding machine, which fulfils the expectations of the eye doctors specialised in all different areas. It simply doesn't matter which area of expertise – **CASIA2** will certainly inspire you! It is incredibly fast and easy to use as 1-2-3.

CASIA2 impresses by intuitive and mostly automated handling, encouraged by an unbelievable measurement speed. Our software guides you easily from measuring through analysis to the final report.

Be inspired now and see the eye from a different perspective. The **CASIA2** has much more impressive features as we can show here. Did we catch your interest? If so, learn more about it and get in touch with us.

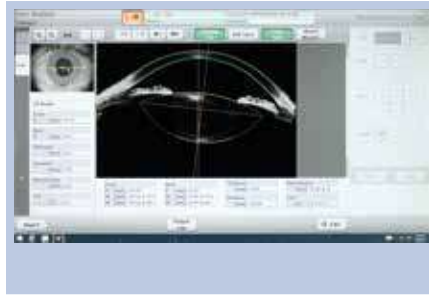
TAKE A JOURNEY OF DISCOVERY THROUGH THE HUMAN EYE.



CATARACT



The detected cornea front and back surface analysis guides you towards the best refractive procedure for your patients satisfaction.

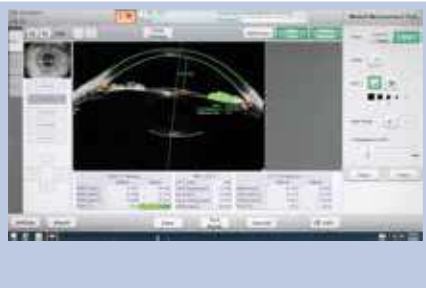


The unique measurement of all 5 relevant lens parameters leads you to a precise prediction of your surgery result.



Post surgery imaging clearly visualises and documents the quality of the treatment result.

GLAUCOMA



CASIA2 now automatically detects the anterior chamber angles in 360 degrees ...

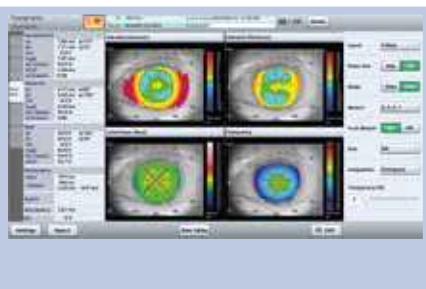


... and displays the result in a detailed and inimitable comprehensive map.

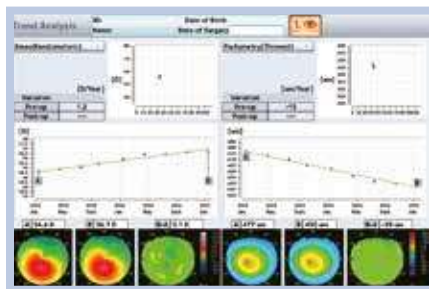


The unrelated compressing imaging scan method allows you to illustrate tiny regions of the interest with the same scanning rate, which leads to a surprising scanning density.

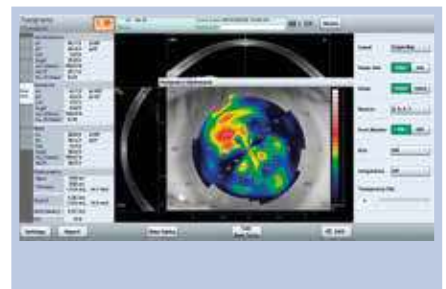
CORNEA



All possible measurements of different corneal areas can be displayed in a clearly arranged customised cornea analysis map.



Our unique trend analysis display visualises the chronological progress of the post treatment regression of the eye.



Additional to our sophisticated Ectasia software, the new Epithelium map is now available. Therefore all corneal degenerations will be detected right away.

SPECIFICATIONS

CASIA2 MEASURING MODE

CUSTOM SCAN	
Scan method	Radial / raster / 2D H+V / 2D single / Movie H+V
Depth	11 mm & 13 mm
B-scan range	3 mm – 16 mm
A/B scan	400 – 2000 A-Scans per line sampling
B/C scan	8 / 16 / 32 / 64 / 128 / 256
Fixation	Dot / accommodation / periphery
Alignment	Auto / Manual / Z-off
CORNEAL MAP	
Scan direction	Radial scan - 16 images
Scan resolution	800 A-scans per line sampling
Scan speed	0.3 sec.
Scan range	Ø 16 mm
Depth	11 mm
BLEB SEGMENT	
Scan direction	Raster scan – horizontal, vertical, 256 images
Scan resolution	400 A-scans per line sampling
Scan speed	2.4 sec.
Scan range	B12 x C12 mm
Depth	11 mm
AS GLOBAL SCAN	
Scan direction	Radial scan – 128 images
Scan resolution	800 A-scans per line sampling
Scan speed	2.4 sec.
Scan range	Ø 16 mm
Depth	11 mm
LENS BIOMETRY	
Scan direction	Radial scan – 16 images
Scan resolution	800 A-scans per line sampling
Scan speed	0.3 sec.
Scan range	Ø 16 mm
Depth	13 mm
VITREOUS RASTER	
Scan method	Raster– 256 images
Scan resolution	400 A-scans per line sampling
Scan speed	2.4 sec.
Scan range	B12 x C12 mm
Depth	13 mm
LENS GLOBAL SCAN	
Scan direction	Radial – 128 images
Scan resolution	800 A-scans per line sampling
Scan speed	2.4 sec.
Scan range	Ø 16 mm
Depth	13 mm
ANGLE ANALYSIS	
Scan direction	Radial 16 images
Scan resolution	800 A-scans per line sampling
Scan speed	0.3 sec.
Scan range	Ø 16 mm
Depth	11 mm
ANGLE HD	
Scan direction	Radial – 64 images
Scan resolution	800 A-scans per line sampling
Scan speed	1.2 sec.
Scan range	B8 x C4

CASIA2 ANALYSIS

3D/2D ANALYSIS	
3D Viewer	Gonioscopic, cutplanes, rotating, ITC
Maps	Axial power (anterior, posterior, real); Refractive power (keratometric, anterior); Instantaneous power (keratometric, anterior, posterior, real); Elevation (anterior, posterior); Pachymetry (map, sectors); Epithelium; ACD (endo.); OCT (horizontal, vertical); Ecc (anterior, posterior); BSF (anterior, posterior)
Analysis function	Lens Analysis, Trend Analysis, Pre-op Cataract Analysis, Post-op Cataract Analysis, IOL Calculation, Gonioscopic View, Rotation Image, Angle Analysis, CCT, ACD, Flap Thickness, Topography, Accommodation, Fourier Analysis, Ectasia Screening, Make Movie
Video Export	2D rotation view / C-Scan view 3D video

CASIA2 SPECIFICATIONS

MEASURING UNIT	
Resolution	Axial (depth) 10µm or less (in tissue), Transverse 30µm or less (in tissue)
Scan speed	50,000 A-scans / second
Scan range	16 x 16 x 13 mm
Transverse Raster	12 x 12 mm
Stroke of moving section	88 mm (X axis); 40 mm (Y axis); 43 mm (Z axis)
Stroke of chin rest	70 mm
Touch screen	20" (optional 24")
Dimension WDH	530 x 560 x 455 mm
Weight	Approx. 33 kg
ALIGNMENT	
Mode	Manual via joystick or touch screen, auto alignment, auto shot
LIGHT-SOURCE	
Type	Swept source laser
Wavelength	1310 nm
Principal	Fourier domain
Output power	Less than 6 mW
POWER-SOURCE	
Voltage	100 VAC – 240 VAC
Frequency	50/60 Hz
Power consumption	170 VA
WORKSTATION COMPUTER	
OS	Windows® 8.1 64 bit
CPU	Intel® Core™i7 Processor or higher
Memory	8 GB
SSD or HDD	SSD 128 GB & external 2-8 TB
Data output	Printer (LAN / USB)
Data export	LAN / USB
Documentation	MS / Printer (not included)
ACCESSORIES (OPTIONAL)	
E-Lift Table	TT2C-1000 / TT2C-800
CASIA2 shelf	TTCS-2000 / TTCS-800



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