SPECIFICATIONS

SS-1000 MEASURING MODE

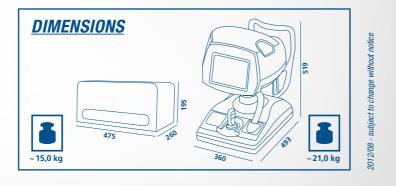
Coon dissotion	Dedial / Destault	Destaull	
Scan direction		Radial / Raster V / Raster H	
Scan types	0	16 - 256 images	
Scan resolution		256 - 512 A-scans per line sampling	
Scan speed		Min 0.2 sec. / max 4.8 sec.	
Scan range	Adjustable 6 – 16	mm	
Scan depth	6 mm	•	
Scan mode	2D, 3D	7 -	
Fixation targets	1 x accommodati	1 x central / 4 x peripheral 1 x accommodation (+5 dpt to -10 dpt)	
CORNEAL MAP			
Scan direction	Radial scan - 16 i	Radial scan - 16 images	
Scan resolution	512 A-scans per	512 A-scans per line sampling	
Scan speed	0.3 sec.	0.3 sec.	
Scan range	ø 10 mm	ø 10 mm	
BLEB SEGMENT			
Scan direction	Raster scan - hor	Raster scan - horizontal, vertical	
Scan resolution	256 lines x 256 ir	256 lines x 256 images	
Scan speed	2.4 sec.	2.4 sec.	
Scan range	8 x 8 mm, 12 x 12	8 x 8 mm, 12 x 12 mm	
ANTERIOR SEGMENT (Hi	gh-Resolution Scan)		
	3D / MOVIE	2D	
Scan direction	128 images	1 image	
Scan resolution	512 A-scans	2048 A-scans	
Scan speed	2.4 sec.	0.2 sec.	
Scan range	ø 16 mm /		
	16 x 16 mm	16 x 16 mm	
ANTERIOR CHAMBER AN	IGLE (HD)		
	3D / MOVIE	2D	
Scan direction	64 images	1 image	
Scan resolution	512 A-scans	2048 A-scans	
Scan speed	1.2 sec.	0.2 sec.	
Scan range	8 x 4 mm	8 x 8 mm	

SS-1000 ANALYSIS

3D/2D ANALYSIS 3D viewer	Gonioscopic , cutplanes, rotating, ITC	
Maps	Topography (anterior/posterior/ACD) Pachymetry (numerical / individual) Ks / Kf / AvgK	
Measurement	Personal curvature correction, anterior chamber angle, area / bleb segment analysis, ACD / CCT / flap / thickness / bias (cornea / iris / ACD) volume, anterior / posterior keratoconus, screening, positi- oning of toric IOL, ITC (3D angle analysis), OKULIX (ray tracing IOL calculation)	
Video export	2D rotation view / C-Scan view, 3D video	

SS-1000 SPECIFICATIONS

MEASURING UNIT Resolution	Axial (depth) 10 μm or less (in tissue)	
nesonation	Transverse 30 µm or less (in tissue)	
Scan speed	30,000 A-scans / second	
Scan range	16 x 16 x 6 mm	
Stroke of moving section	88 (X axis), 40 (Y axis), 45 (Z axis) mm	
Stroke of chin rest	70 mm	
Touch screen	8.4" colour TFT	
Dimension WDH	360 x 493 x 519 mm	
Weight	Approx. 21 kg	
ALIGNMENT		
Mode	Manual via joystick or touch screen, auto alignment, auto shot	
LIGHT-SOURCE UNIT		
Туре	Swept source laser	
Wavelength	1310 nm	
Principal	Fourier domain	
Output power	Less than 5 mW	
Dimension WDH	475 x 260 x 195 mm	
Weight	Approx. 15 kg	
POWER SOURCE		
Voltage	100 VAC - 240 VAC	
Frequency	50/60 Hz	
Power consumption	120 VA - 160 VA	
Workstation Computer		
0S	Windows® XP or Windows® 7	
CPU	Intel [®] Core [™] 2 duo processor or higher	
Memory	4 GB or higher	
HDD RAID	750 GB or higher x 2 (level1)	
Data output	Printer (LAN / USB)	
Display	19" colour TFT display	
Data export	LAN / USB	
Documentation	MS / printer (not included) Video printer (not included)	
Accessories		
E-lift table	1200 x 550 mm, PC holder, Printer holder, Isolation transformer	



TOMEY **TECHNOLOGY AND VISION**

FOURIER DOMAIN OCT CASIA SS-1000

3D SWEPT SOURCE OCT

DELIGHT **IN SIGHT**

High speed autotracking measurement for anterior segment.





- High scanning speed: 30,000 A-Scans/sec.
- 130,800 A-Scans
- Cut plane 16 x 16 x 6 mm
- Topo / Pachy map in 0.3 sec.
- Free adjustable display in 2D and 3D Individual correction based on the cornea power
- Total scanning time only 2.4 sec. for high resolution



THE TOMEY **CASIA SS-1000** FOURIER DOMAIN OCT



QUALITY IN DETAIL

With the CASIA SS-1000 Fourier Domain OCT you can take high-speed and high-resolution images for a variety of clinical situations. Due to the swept source technology, three dimensional data can be captured at a speed of 0.3 to 2.4 seconds with minimal motion artefact.

The SS-1000 measures 256 B-scans over the cornea which enables the real 3D view. The high density of the B-scans allows you an entire analysis of the anterior chamber.

Since the SS-1000 is a non-contact system, you can take the images immediately after surgery. Corneal curvature, anterior chamber angle analysis, bleb segment analysis, measurement of corneal thickness and anterior chamber depth and the anterior segment of an opaque cornea can be analyzed with various applications. Additional to the measurement values in the single B-scans the SS-1000 provides you with a Topography and Pachymetry map of the surface of the cornea. The individual cornea power correction, considering all physical changes in the AC is guarantor of correct calculation and relocation of the same cornea spot.

PACHYMETRY plus TOPOGRAPHY

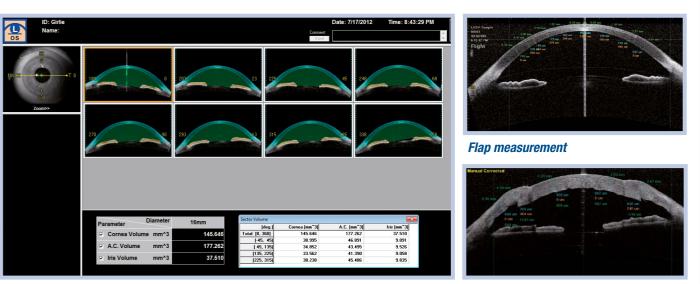
A Picture is worth a thousand words



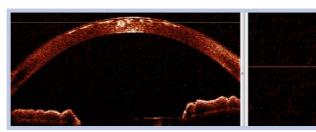


Pachymetry map

Keratoconus screening



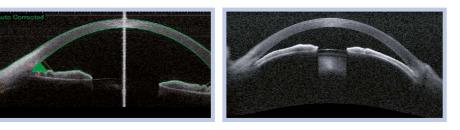
Iris, ACD and Cornea volume calculation: By just one click you can easily calculate the iris volume as well as the anterior chamber and the cornea volume. Three values - one step!



C-Scan view

Bleb segment

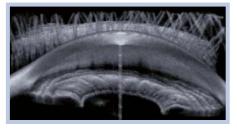




Standardised angle measurement

Positioning of toric IOL

DSEK: You can see the centration and complete attachment of the transplanted cornea.



Gonioscopic view

Angle closure Glaucoma

