SPECIFICATIONS

SS-1000 MEASURING MODE

ANTERIOR SEGMENT (customized)		
Scan direction	*Radial / Raster V / Raster H*	
Scan types	*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*	
Fixation targets	*1 x central / 4 x peripheral 1 x accommodation (+5 dpt to -10 dpt)*	
CORNEAL MAP		
Scan direction	*Radial scan - 16 images*	
Scan resolution	*512 A-scans per line sampling*	
Scan speed	*0.3 sec.*	
Scan range	*ø 10 mm*	
BLEB SEGMENT		
Scan direction	*Raster scan - horizontal, vertical*	
Scan resolution	*256 lines x 256 images*	
Scan speed	*2.4 sec.*	
Scan range	*8 x 8 mm, 12 x 12 mm*	
ANTERIOR SEGMENT (High-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 ANGLE (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*

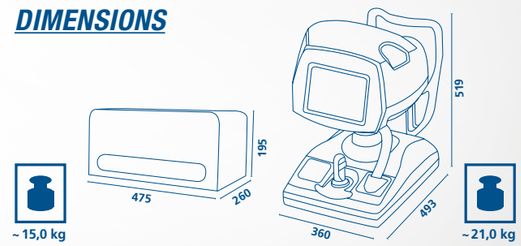
SS-1000 ANALYSIS

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, positioning 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) 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	
Type	*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	
OS	*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*

DIMENSIONS



2012/08 - subject to change without notice

MERCOFRAMES OPTICAL CORP
5555 Nw 74 Ave. Miami. Fl. 33166
Tel. 305-882-0120
ale@mercoframes.com

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

TOMEY
TECHNOLOGY AND VISION

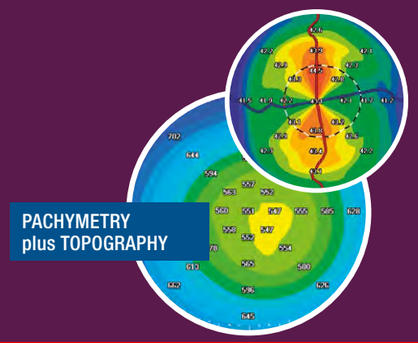
THE TOMEY CASIA SS-1000 FOURIER DOMAIN OCT

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.

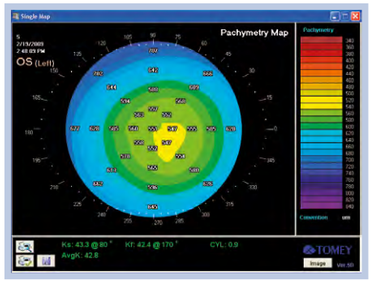
The **SS-1000** measures 256 B-scans over the cornea which enables the real 3D view. The high density of the B-scans allows you an entire analysis of the anterior chamber.

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.

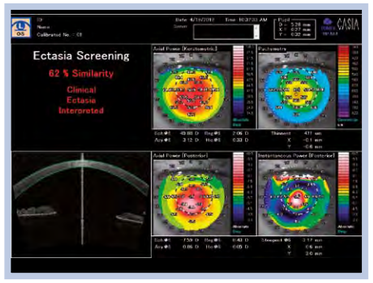


A Picture is worth a thousand words

To see 3D videos and get more information please visit our homepage:
www.tomey.de

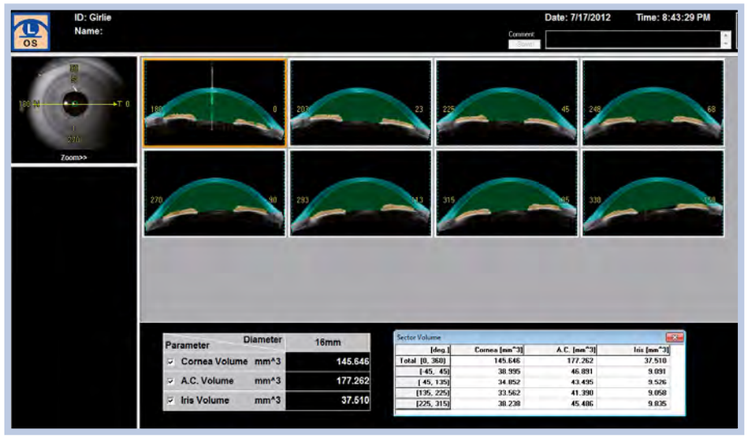


Pachymetry map

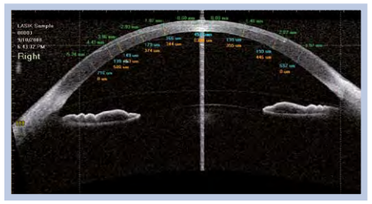


Keratoconus screening

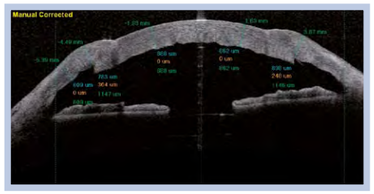
Positioning of toric IOL



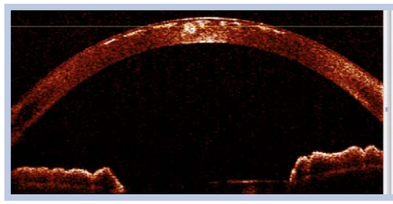
Iris, ACD and Cornea volume calculation:
By just one click you can easily calculate the iris volume as well as the anterior chamber and the cornea volume. Three values – one step!

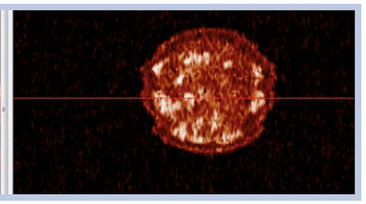


Flap measurement

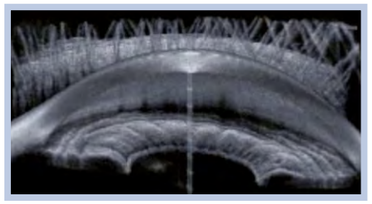


DSEK: *You can see the centration and complete attachment of the transplanted cornea.*



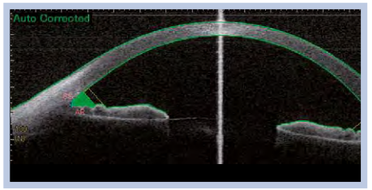


C-Scan view



Gonioscopic view

Bleb segment



Standardised angle measurement

Angle closure Glaucoma

MERCOFRAMES OPTICAL CORP
5555 Nw 74 Ave. Miami. Fl. 33166
Tel. 305-882-0120
ale@mercoframes.com