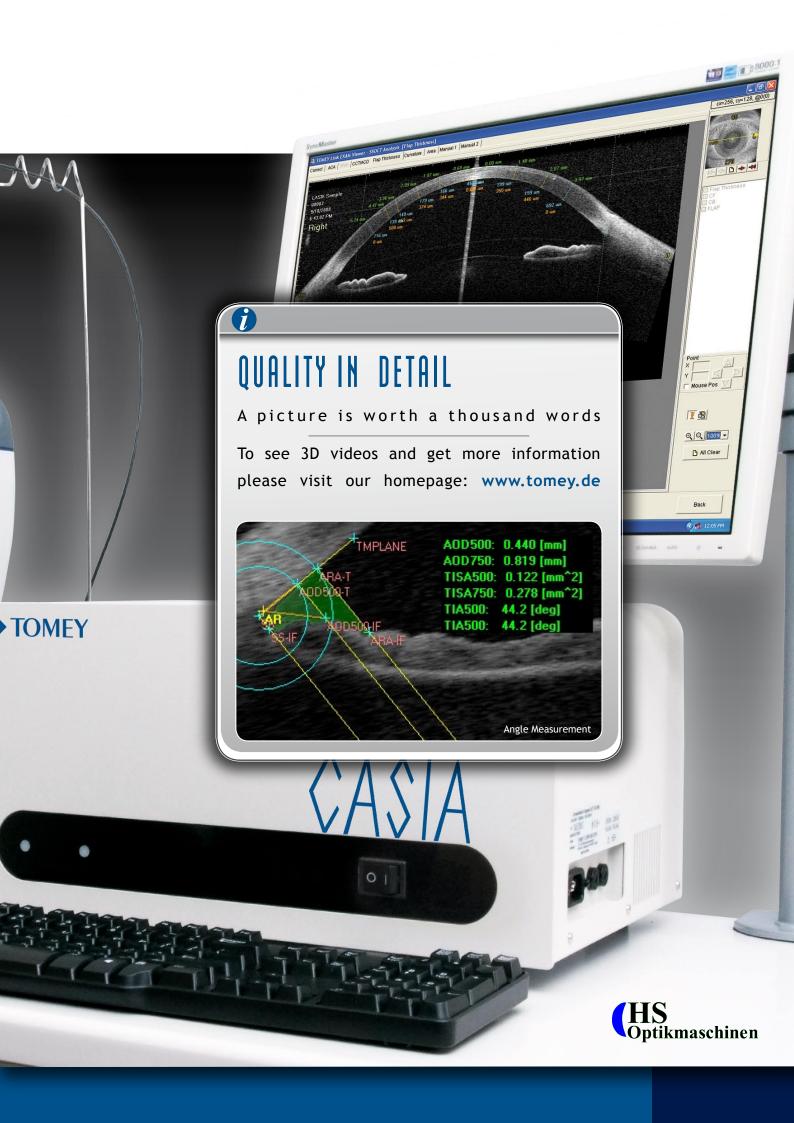
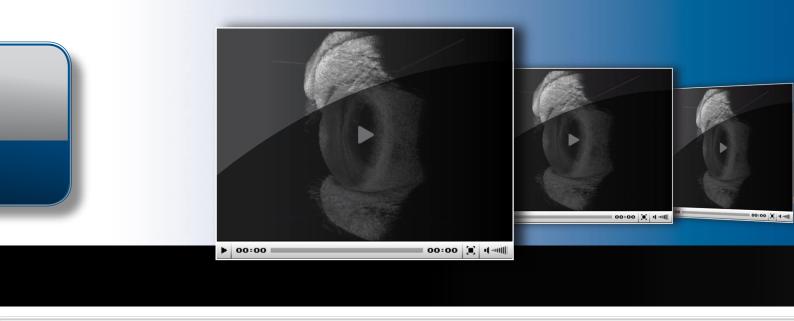
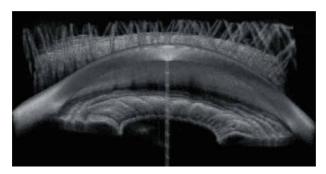


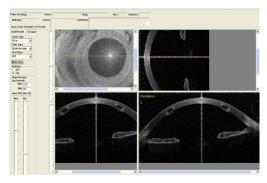
Optikmaschinen



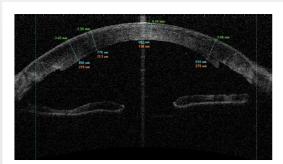




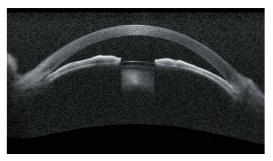
You can see the eye in any cut plane orientation. In the **Gonioscopic view** you see the image like with a goniolens even in rotation.



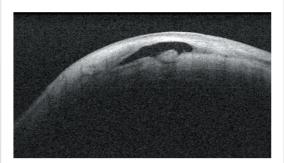
Exam Viewer



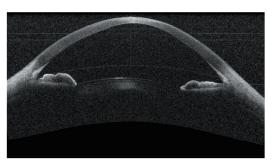
DSEK: You can see the centration and complete attachment of the transplanted cornea.



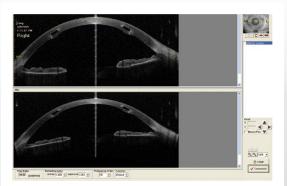
Angle-closure glaucoma: This image shows you that the angles are closed. Since a three dimensional image is captured you can obtain the gonioscopic data of 360° .



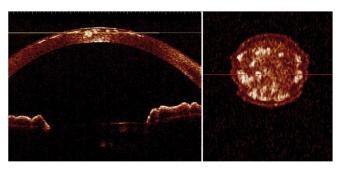
Bleb Segment: A water gap is shown in black. Since the SS-1000 is a non contact system you can take an image immediately after surgery.



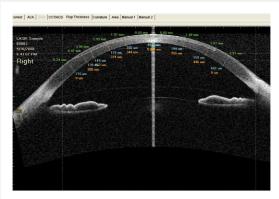
Keratoconus: You can view a Keratoconus at a very early stage and at any position of the cornea.



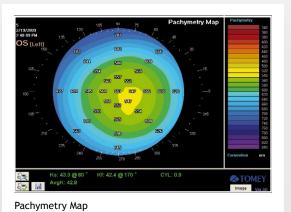
Precise and real values - The CASIA uses the curvature of each individual cornea for its correction algorithm and does not estimate the correction values based of a normative eye.



C-Scan View: The yellow bar shows condition of the dystrophy in different cuts.



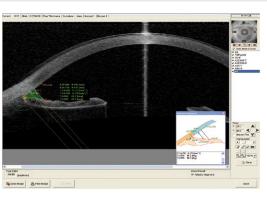
Measurement of corneal thickness and flap



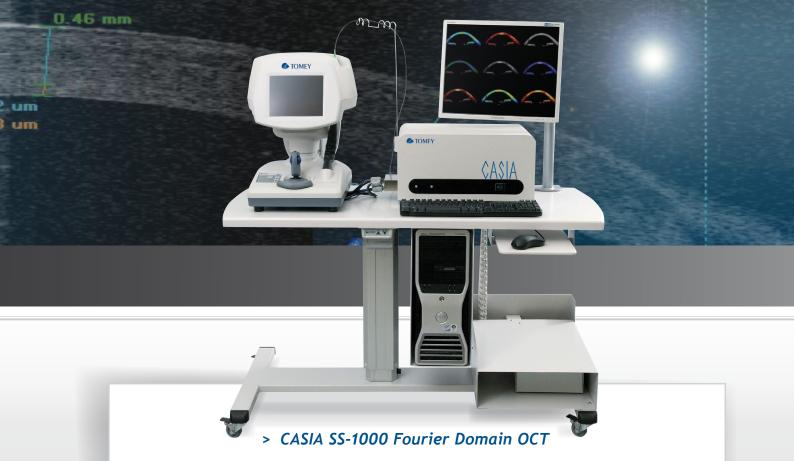
Curvature Map

Curvat

Topography Single Map



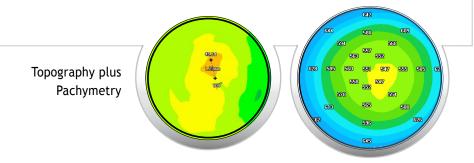
Anterior chamber angle analysis



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 artifact.

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

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 Topographic and Pachymetry Map of the surfaces 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.



SPECIFICATIONS

SS-1000 MEASURING MODE

Anterior Segment (customized)

Scan Direction . . . Radial / Horizontal / Vertical

Scan Types. 16-256 Lines Scan Resolution . . 256 - 512 A-Scans per Line

Sampling .min 0.2 sec / max 4.8 Scan Speed min 0.2 sec / max 4.8 Scan Range Adjustable 8 mm-16 mm

Scan Depth6 mm

Scan Mode Area / 2D Video

Fixation Targets . .1xCentral/4xPeripheral 1 x Accommodation

(+5 dpt to -10 dpt)

Cornea (Topo-/Pachy-Map)

Scan Direction . . . Radial Scan - 16 Lines

Scan Resolution . . 512 A-Scans per Line

Sampling Scan Speed0.3 sec

Scan Range Transverse ø 10 mm,

Depth 4 mm

Bleb Segment

Scan Direction . . .Raster Scan - Horizontal

Scan Resolution . . 256 (H) x 256 (V)

Scan Speed 2.4 sec

Scan Range 16 mm (H) x 16 mm (V)

Depth 6 mm

Anterior Segment

(High-Resolution Scan)

Scan Direction . . . Radial Scan-128 lines

Scan Resolution . . 512 A-Scans per Line

Sampling

Scan Speed 2.4 sec

Scan Range Transverse ø 16 mm,

Depth 6 mm

Anterior Chamber Angle

Scan Direction . . . Radial Scan - 64 Lines

Scan Resolution . . 512 A-scans per Line

Sampling

Scan Speed1.2 sec

Scan Range Transverse ø 16 mm,

Depth 6 mm

SS-1000 ANALYSIS

3D/2D Analysis

.Gonioscopic Cutplanes 3D Viewer

Rotating

.Topography (Absolut / Klysed / Wilson)

Pachymetry (numerical / individual) Ks / Kf / AvgK

Measurement Personal Curvature

Correction, Anterior Chamber Angle, Bleb

Segment Analysis, CCT/ACD Measurement, CCT / Flap

Thickness / Bias Curvature.

Area Measurement

Video Export . . . 2D Rotation View

2D C-Scan View

3D Video

Measuring Unit

ResolutionAxial (Depth) 10 µm or less

(in Tissue) Transverse 30 µm

or less (in Tissue)

Scan Speed 30,000 A-Scans / Second Scan Range 6 mm x 16 mm x 16 mm

Stroke88 mm (X Axis)

40 mm (Y Axis) 45 mm (Z Axis)

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 Shoot

Light-Source Unit

Type Swept Source Laser

Wavelength 1310 nm

Principal Fourier-Domain

Output Power . . . Less than 5mW

Dimension WDH . . 457 x 299 x 234 mm

Weight Approx. 21 kg

Power Source

Voltage 100 V AC - 240 V AC

Frequency 50/60 Hz

Consumption 250 VA - 300 VA

Workstation Computer

OS Windows XP

CPU Intel Core 2 Duo

Processor

Memory. 4 GBytes

HDD RAID 750 GB x 2 (Level1)

Data OutputPrinter (LAN / USB) Display 19 inch Colour

TFT Display

Accessories

E-Lift Table 1200 x 600 mm

.....PC Holder

. Printer Holder

. Isolation

Transformer

Data Export LAN / USB Documentation . . . MS / Printer

(not included)

Video Printer (not included)





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