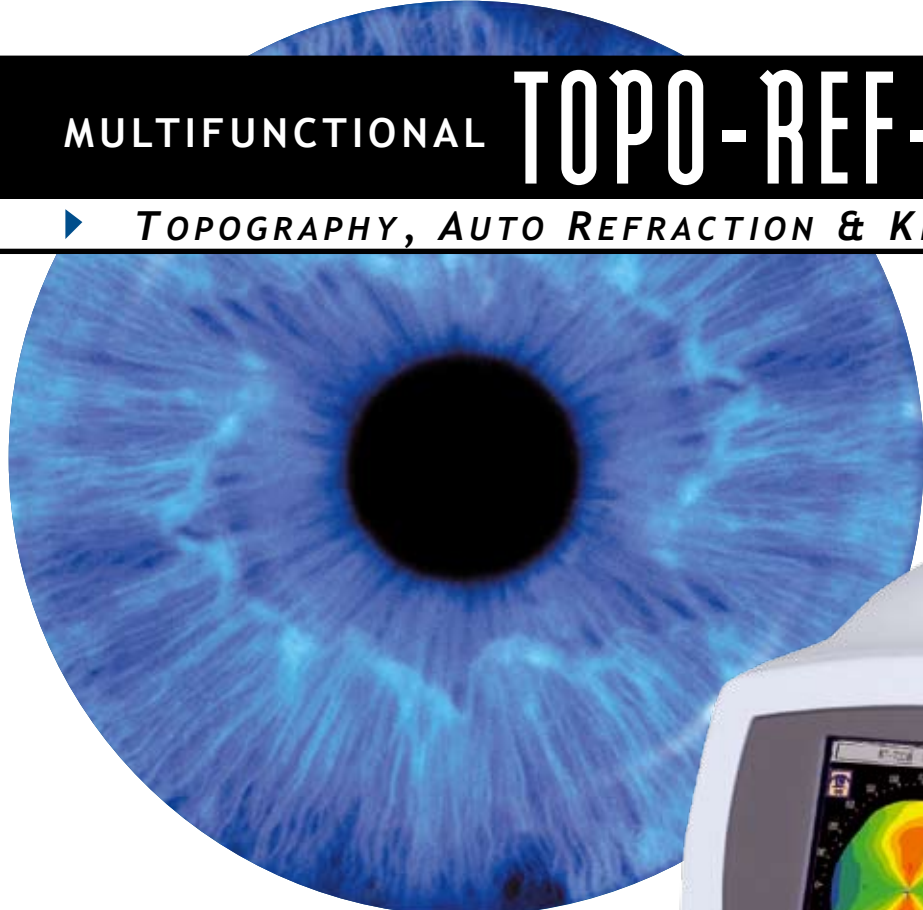


MULTIFUNCTIONAL

TOPO-REF-KERATOMETER

▶ *TOPOGRAPHY, AUTO REFRACTION & KERATOMETRY RT-7000*



- *3 Systems - 1 Instrument*
- *Auto Alignment
+ Auto Shot*
- *Colour Touch Screen*
- *Different Topography
Maps*
- *Pupil + Cornea
∅ Measurement*
- *Electronic
Controlled
Chin Rest*

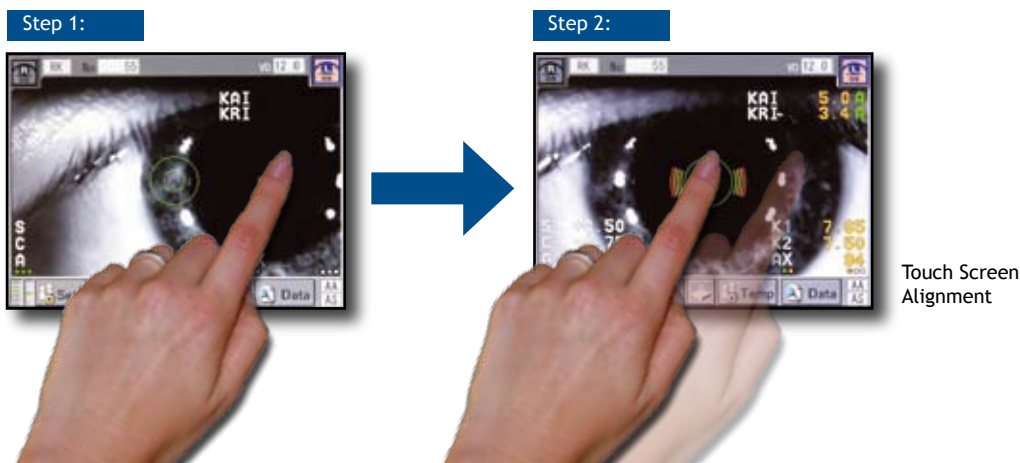
THE FUTURE IS NOW

THE TOTALLY ELECTRONIC CONTROLLED TOMEY RT-7000



An unique combination of topography, auto-refraction and keratometry in one - multi diagnostic replaces three devices with all their functions. The compactness of this instrument is its strength. It is therefore a perfect space and cost saving solution for you. Highly accurate measurements combined with the short examination time and easy handling makes working with the

RT-7000 professional and quick. The RT-7000 sets the standard of modern eye diagnostic devices to the latest electronic technology innovations. Thanks to the electronic controlled movement you can operate and align the RT-7000 through both - power motion joystick and/or touch screen - all this in fraction of seconds.



Colour Touch Screen

The 6.4 inch coloured touch screen is used as operating monitor as well as for displaying all measured values. You can even move the unit in all directions by simply touching the screen. All commands can be done via touch screen.

Auto Alignment + Auto Shot

The handling of the RT-7000 is very easy - it does almost everything by itself. Alignment and measurement are done automatically. You just roughly align the system towards the patient eye and the rest is taken care of by the instrument. With a tip on the screen the system automatically moves to left or right eye.



Pupil + Cornea \emptyset Measurement

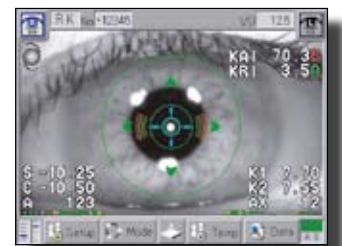
Once you have captured your patients eye you can set the pupil and cornea measurement bars to measure the individual diameter. These values will also be stored, displayed and printed.

Electronic Controlled Chin Rest

Since all movements of the RT-7000 are electronically controlled - of course also the chin rest follows your command for adjusting the patient up or down by just pressing a button. For the mounting on a refraction unit you can easily disassemble the chin rest from the main body.

Topography Indices KRI + KAI

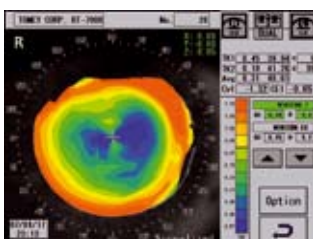
For immediate understanding of the cornea topographic structure we have implemented the topographic indices KAI (Kerato-Asymetry Index) and KRI (Kerato-Regularity Index). These values are highlighted in colour (green = normal, yellow = suspect, red = abnormal) to provide you a quick information about the corneal structure behaviour.



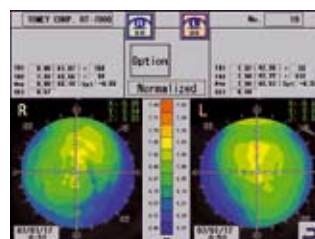
Auto Alignment



Auto Shot



Post Lasik Normalized Map



Dual Map



Pupil + Cornea \emptyset Measurement

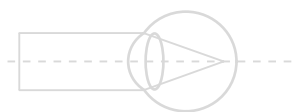
RT-7000

TOPO-REF-KERATOMETER

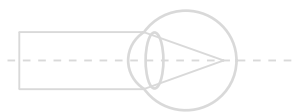


[REF VD=12.0mm]

<RIGHT>
SPH CYL AXIS
+0.50 -1.50 91 0
* +0.50 -1.50 91 CE0
+0.50 -1.50 91 Le0



<LEFT>
SPH CYL AXIS
+0.50 -1.50 91 0
* +0.50 -1.50 91 0
+0.50 -1.50 91 0



[KRT]
<RIGHT>
K1 K2 CYL AXIS
mm mm D deg
8.28 8.23 -0.25 99
8.28 8.23 -0.25 99
* 8.28 8.23 -0.25 99

* AVG 8.28 mm

* KAI : 2.6@ 14 A
* KRI : 0.8 A

<LEFT>
K1 K2 CYL AXIS
mm mm D deg
8.28 8.23 -0.25 99
8.28 8.23 -0.25 99
* 8.28 8.23 -0.25 99

* AVG 8.28 mm

* KAI : 3.1@ 220 A
* KRI : 0.3 A

[TOPO]
<RIGHT>
mm D AXIS
TK1 8.01 42.13 62
TK2 8.00 42.19 152
AVG 8.01 42.13
CYL -0.06 62
CEI 0.08

<LEFT>
mm D AXIS
TK1 8.01 42.13 62
TK2 8.00 42.19 152
AVG 8.01 42.13
CYL -0.06 62
CEI 0.08

TIONS

Refractive Power Measurement

Spherical Refractive Power (S)

Measurement Range -25.00 D to +22.00 D
(at VD = 12.0 mm)
Display Unit 0.01 D / 0.12 D / 0.25 D

Cylindrical Refractive Power (C)

Measurement Range 0 D to ±10.00 D
(at VD = 12.0 mm)
Display Unit 0.01 D / 0.12 D / 0.25 D

Astigmatism Axial (A)

Measurement Range 0° to 180°
Display Unit 1°
Minimum Pupil Diameter Ø 2.2 mm
Vertex Distance 0 mm / 12.0 mm / 13.5 mm /
14.0 mm / 15.5 mm /
16.0 mm
Measurement Time 0.2 seconds / single eye

Corneal Curvature Measurement Corneal Curvature (K1, K2, AVG)

Measurement Range 5.00 mm to 11.00 mm
Display Unit 0.01 mm

Corneal Refractive Power (K1, K2, AVG)

Measurement Range 30.68 D to 67.50 D (n=1.3375)
Display Unit 0.01 D

Corneal Astigmatism (CYL)

Measurement Range 0 D to 10 D (n=1.3375)
Display Unit 0.01 D

Axis Of Corneal Astigmatism (AXS)

Measurement Range 0° to 180°
Display Unit 1°
Measurement Area
Cornea Ø 3.0 mm
(at 8.00 mm corneal
curvature)
Measurement Time 0.1 seconds / single eye

Measurement Of Corneal Shape

Display Range 9 D to 100 D

Measurement Area (at 8.00 mm corneal curvature)

Normal Measurement
Mode Ø 1.0 mm to 8.0 mm
Special Measurement
Mode Ø 0.9 mm to 7.0 mm

Pupillary Distance Measurement

Measurement Range 50 mm to 86 mm
Display Unit 1 mm

Corneal Diameter & Pupil Diameter Measurement

Measurement Range 1.0 mm to 14.0 mm
Display Unit 0.1 mm

Observation Range

Approx. 15 mm x 9 mm

Main Unit

Built-in Printer Thermal Printer
Output External Printer/LAN/USB
Display 6.4" Colour LCD

Measurement Accuracy

Eye Refractive Power
Measurement ± 0.25 D (model eyes)
Keratometry ± 0.02 mm (model eyes)
Measurement Of
Corneal Shape ± 0.02 mm (model eyes)

Topography Indices

KAI Kerato-Asymetry Index
KRI Kerato-Regularity Index

Dimensions & Electric Requirements

Dimensions WDH 307 x 490 x 466 mm
Weight Approx. 20.0 kg
Power Supply AC 100 V to 240 V
Frequency 50/60 Hz
Power Consumption 120 VA to 150 VA



Handwerkerstraße 14
48720 Rosendahl-Holtwick
Tel: 02566/4720
Fax: 02566/1620
Email: hsoptikmaschinen@hotmail.com
www.hs-optikmaschinen.de