Corneal Topography

Auto Alignment / Auto Shot

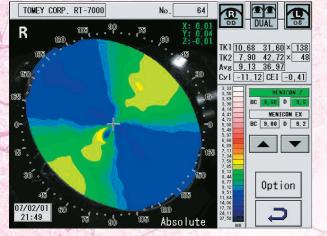
Anyone can easily capture measurements with Auto Alignment and Auto Shot.

The measurement variation is significantly reduced no matter what the skill level is of the operator.

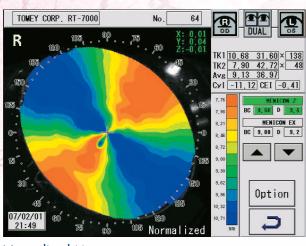


Various Color Maps

Absolute and Normalized color maps can be viewed.



Absolute Map



Normalized Map

CL Fitting Simulation

A pseudo-fluorescein pattern of the contact lens selected from the built-in data base can be confirmed, and the fitting can be simulated before the patient wears the Trial Lens.

Corneal Eccentricity Index for "Ortho-K Lens" (CEI)

The index of CEI(Corneal Eccentricity index indicates the ratio of flattening in percentage from the central cornea to the periphery.

One vision, Two sharp eyes with Our Innovation

RT-7000
Auto Ref-Topographe



- Three Functions in One Instrument
- Easy & Speedy Touch Screen Alignment
- 6.4 inch color TFT LCD
- Dual CCD technology for Refractometry
- IOL / Cataract Mode
- New Indices for Keratometry: KAI, KRI
- Auto Alignment / Auto Shot for Topography

RT-7000 SPECIFICATIONS

Measurement Ranges

Refraction Measurement

 Sphere
 -25.00D to +22.00D(VD=12.0mm)

 Cylinder
 0D to ±10.00D(VD=12.0mm)

 Axis
 0 to 180°

Corneal Curvature Measurement

ent 5.00mm to 11.00mm

(Measurement Zone: ϕ 3mm, R:8.00mm)

Corneal Mapping

Display Range 9 to 100 D

— Normal Mode

 ϕ 1.0 to 8.0mm(R:8.0mm)

— Special Mode

 ϕ 0.9 to 7.0mm(R:8.0mm)

0.2 seconds 0.1 second

0.01 mm

Measurement Time

Γ

Minimum Pupil Diameter ϕ 2.2n

Minimum Measurement Step

Refraction Measurement

Sphere 0.01D Cylinder 0.01D

1°

Corneal Curvature

PD(Pupil Distance) 50mm to 86mm

Recording Built-in Thermal Printer

Vertex Distance 0mm,12.0mm,13.5mm,14.0mm,

15.5mm,16.0mm

Exterior Output LAN port / 4USB ports

Dimensions

Depth

502mm or 20 inches 305mm or 12 inches 493mm or 19 inches

Weight Approx. 20.00kg(44.4lbs)

Display 6.4 inch color liquid crystal display

Power Supply
Voltage AC 100 to 240V

Frequency 50/60Hz

Consumption Power 120VA to 150VA

Temperature + 10C° to + 40C°

Display 30% to 75 %



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Three Functions in One Instrument

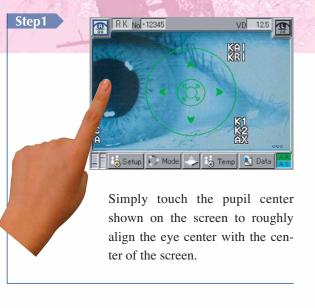
Refractometer, Keratometer and Topographer only in 1 unit. Senior citizens and children can also get the inspection without any trouble because they don't have to move the seat for three measurements.

Switch from Ref-Kerato Mode to Corneal topography Mode with only ONE TOUCH. The light cone appears with only one button from the measuring head and the Ref-Keratometer is transformed to the Topographer.



Easy & Speedy Touch Screen Alignment

The Touch Alignment of the RT-7000 quickly aligns the eye center with the center of the screen by simply touching the eye shown on the screen. The Auto Alignment and Auto Shot functions then start measurement immediately.



Lighly press the center of the screen to move the measuring head toward the patient. The Auto Alignment and Auto Shot functions will then quickly complete measurement.



6.4 inch Color TFT LCD

The 6.4 inch big color TFT LCD can be seen from anywhere, up, down, right and left of the display it is easy to measure while either sitting or standing.

One vision, Two sharp eyes with Our Innovation

RT-7000 Auto Ref-Topographer Three Functions in One Instrument

Refractometry

Dual CCD technology for Refractometry

Two CCD cameras are used to capture images for observation and for measurement while providing highly accurate

The viewing angle of the fixation target is wider to make patient relaxed during fixation to avoid accommodation.



■IOL/Cataract Mode

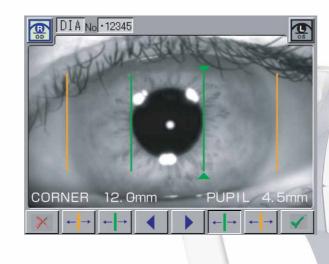
When it is difficult to measure pseudophakic or cataract eyes in normal mode, it can be switched to the IOL or Cataract Mode to match the state of examination eyes being examined.

It switches into the Cataract Mode automatically, too.



Diameter Measurement of Cornea and Pupil

The measurement can be done easily by moving the two cursors on the display to the boundary of Cornea or Pupil. This is useful for deciding the diameter of a contact lens.



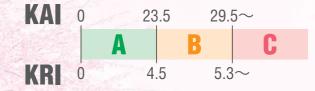


Keratometory

New Indices for Keratometry : KAI, KRI

The Corneal Irregular Astigmatism display function is installed to expand the possibility of Keratometer. This is the new function to measure the level of Corneal Irregular Astigmatism, which was difficult in the past.

The Indices of KAI and KRI that show the Corneal Irregular Astigmatism are displayed with its three levels(A·B·C)



KAl:(Kerato-Asymmetry Index)

The Index indicating the asymmetry of cornea. This index becomes larger when the corneal shape The Index indicating the regularity of the cornea (higher-order irregular astigmatism). This index becomes larger when the corneal surface is not smooth.

KRI: (kerato-Regularity Index)

It is possible to confirm the detail of the corneal shape with Topographer by switching to the Topography Mode with only "ONE TOUCH" if irregular astigmatism is suspected with KAI and KRI.

Case1:Keratoconus Cornea **RT-7000** TMS Fourier analysis

The KAI of RT-7000 is Asymmetry of TMS Fourier analysis (Map(1)) is displayed.

Case1:After Keratoplasty **RT-7000** TMS Fourier analysis KRI 6.0C

The KRI of RT-7000 is High order irregularity of TMS Fourier analysis (Map(2)) is displayed.

Fourier analysis of TMS separates and quantifies the refracting power on the surface of the cornea to "Spherical", "Regular Astigmatism", "Asymmetry" and "Higher-order irregularity" show the Corneal Irregular Astigmatism.