

One vision, Two sharp eyes with Our Innovation

RT-7000

Auto Ref-Topographer



- Three Functions in One Instrument
- Easy & Speedy Touch Screen Alignment
- 6.4 inch color TFT LCD
- Auto Alignment / Auto Shot
- Dual CCD technology for Refractometry
- IOL / Cataract Mode
- New Indices for Keratometry: KAI, KRI
- TSAS (Tear Stability Analysis System) MODE for Dry eye

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

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)

Measurement Time

REF 0.2 seconds
KRT 0.1 second

Minimum Pupil Diameter

φ 2.2mm

Minimum Measurement Step

Refraction Measurement

Sphere 0.01D
Cylinder 0.01D
Axis 1°

Corneal Curvature Measurement

0.01 mm

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

High 502mm or 20 inches
Width 307mm or 12 inches
Depth 490mm 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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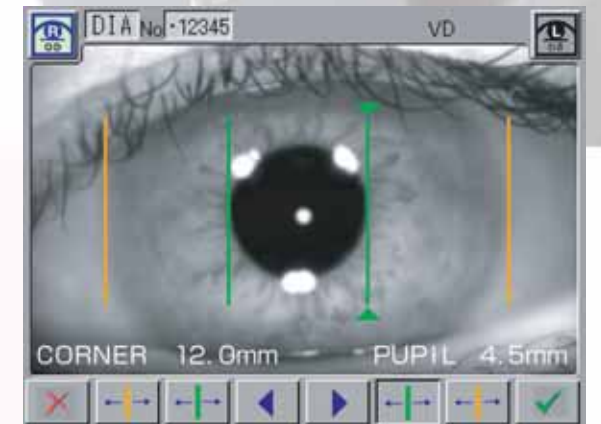
Three Functions in One Instrument

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.

Diameter Measurement of Cornea and Pupil

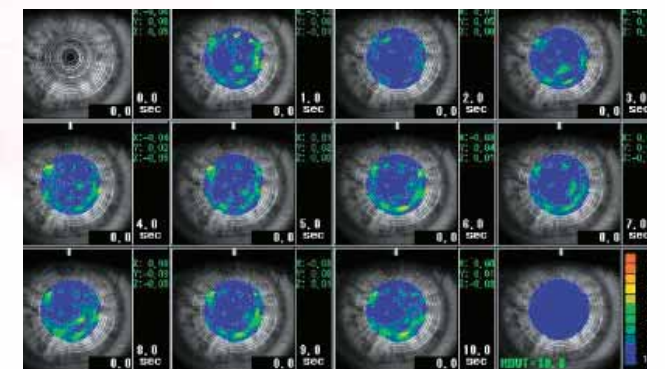
The measurement can be done easily by moving the two cursors on the display to the boundary of Cornea or Pupil. This is useful for deciding the diameter of a contact lens.



Corneal Topography

●TSAS (Tear Stability Analysis System) MODE for Dry eye

TSAS is the system for analyzing the tear stability using the light cone system. The mire ring is projected onto the cornea of the patient's eye for 6 seconds and the image of the mire ring is captured at a specific interval. The system interprets the tear layer that changes as time passes as distortion of the mire ring image, analyzes the mire ring, and shows the position and time where the tear layer changes in the color code map.



Break up MAP & Ring Break Up Time

●Various Color Maps

Absolute and Normalized color maps can be viewed.

●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.

Ref-Kerato Mode



Topo Mode



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.



Keratometry

●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) at Keratometry.

KAI: (Kerato-Asymmetry Index)

The Index indicating the asymmetry of cornea. This index becomes larger when the corneal shape is asymmetric.

KRI: (kerato-Regularity Index)

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

Case1:Keratoconus Cornea

RT-7000 TMS Fourier analysis
KAI/KRI
KAI 123.2C
KRI 4.1A

The KAI of RT-7000 is Asymmetry of TMS Fourier analysis (Map1) is displayed.

Case1:After Keratoplasty

RT-7000 TMS Fourier analysis
KAI/KRI
KAI 2.3A
KRI 6.0C

The KRI of RT-7000 is High order irregularity of TMS Fourier analysis (Map2) is displayed.

