

PRODUCT

- Auto Ref-Keratometer**
- Digital Refractor
- Auto Chart Projector
- LCD Chart
- Auto Lensmeter

- PRK-8000**
- PRK-7000
- PRK-6000
- PRK-5000



PRK-8000 Auto Ref-Keratometer

- Semi auto pupil tracking
- Wider measurement range

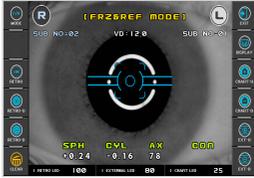


E-brochure

Print

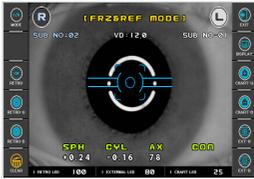
Product Description

Specifications



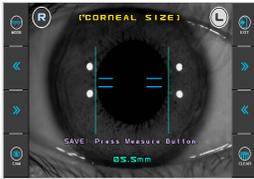
Refractometry & Keratometry Measurement

PRK-8000 provides an extensive dioptric measurement range [-30D to +25D] compared to our previous model, and the radius of curvature for keratometry is 5.0mm to 13.0mm. Easy alignment and friendly operation allows you to measure the refraction and keratometry at a time and check the results immediately



Peripheral Keratometry

Peripheral corneal curvatures can be measured by having the examinee look at the peripheral eye fixation lamps. Measuring the corneal periphery will help you examine irregular astigmatism, and also determine a better fitting for a contact lens.



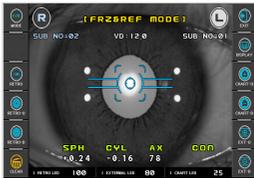
Intuitive Diameter Measurement

Using the freeze function, measurement of the diameter of the cornea, pupil or hard contact lenses worn by the patient can be performed. By simply touching and dragging the screen with your finger measurements are exactly calculated.



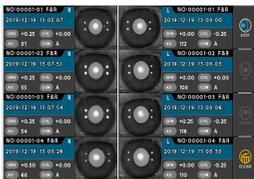
Simulating short-distance vision

An optician can help a patient easily understand if he or she needs to wear progressive lens through pre-correction vision simulation. The patient can compare the effects before and after correcting through short-distance vision simulation.



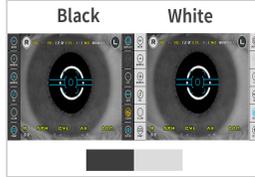
Enhanced performance of Retro illum

With our improved ILLUM mode, any opacity[cataract] in the crystal or fault of the contact lens are visible on the monitor by the method of projecting light on the pupil.



Improved display function for Retro illum Mode

Ten images and results of each eyeball can be for simultaneous checking by enhanced display control system.



Black/White User Interface Option

According to preference, user can select Black or white user interface.

Convenient Control by TFT-LCD Touch Screen

We virtually moved, almost all function buttons on TFT-LCD touch screen for smooth and easy operation. various tests can be performed conveniently by a simple touch on indicated icons on TFT-LCD screen.

	SPH	CYL	AX	CON
REF	+0.25	+0.00	A	+0.00
REF LEFT	+0.25	+0.00	A	+0.00
KOP	+0.25	+0.00	A	+0.00
CLIC	+0.25	+0.00	A	+0.00
KPI	+0.25	+0.00	A	+0.00
AV	+0.25	+0.00	A	+0.00

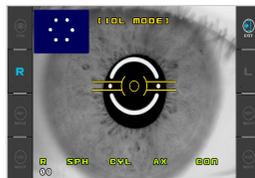
Instant Display Data

Up to 10 measurement results can be checked by a simple touch on display and thermal auto cut printer helps to print out the result.

Mode	SPH	CYL	AX	CON
REF	0.0	12.0	13.0	10.0
CTL				MAX
INC-R	0.12	0.25		
D-SFT	STANDARD	DEC	INC	
S-SPD	STANDARD	CONTINUE		
POSFT	+	DEC	INC	
AXZ				
mm/D	mm	D	AVE	
INC-K	0.05	0.12	0.25	
INDEX	1.375	1.32	1.36	

Interactive SETUP Change

Simply touch the icon on the screen and changed settings can be seen. The touch screen supports interactive setting changes quickly and conveniently to save user time.



IOL Measurement

By turning on "IOL" function, measurement result of cataract patient will be easy to take.

Motorized chinrest

Motorized chinrest switch is placed on the top of lower base to adjust the height of chinrest conveniently. It's smooth up & down movement helps patient and examiner to obtain accurate position for measurement.

Auto Cut Printer

Result can be printed right after finishing the measurement with auto paper cutting technology. By economy mode of printing can save paper by adjusting letter size and arrangement.

Data transfer

Data can be transferred to external devices [personal computer, etc.] via an RS-232 interface. A USB interface is also provided for future compatibility.

User can send the images of patient's eyes through USB port and have faster S/W upgrade by the PC program provided as option.



LCD User-oriented tilting LCD screen

Our new enlarged [800X480] LCD monitor gives 180° up & down 135~145° left to right versatile accessibility to a user for inspecting patient eye more conveniently.

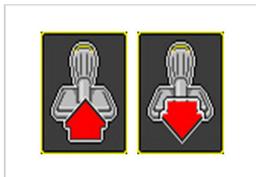
Semi-auto pupil tracking

The pupil position detecting automatic height adjustment system reduces measurement time. By only clicking a button, user can switch the mode from Auto to manual tracking.



Measurement helping guide indication

Measurement convenience and accuracy are increased by adding lever-handling guide images designed to easily track eyeball focus.



Enhanced joystick performance

The no-load joy stick ensures softer and enhanced eye examination, as it can determine a point of time for measurement without vibration and more accurately than the previously adopted belt type even while the measurement head is moving up or down.

The convenience stage-lock

User can fasten the main body by simple control.

MEASUREMENT MODES	
K/R Mode	Continuous Keratometry and Refractometry
REF Mode	Refractometry
KER Mode	Keratometry
CLBC Mode	Contact Lens Base Curve Measurement
K(P) Mode	Peripheral Keratometry
REFRACTOMETRY	
Vertex Distance(VD)	0.0/12.0/13.5/15.0
Sphere(SPH)	-30.00 ~ +25.00D (when VD=12mm, Increments : 0.12 and 0.25D)
Cylinder(CYL)	0.00 ~ ±10.00D (Increments : 0.12 and 0.25D)
Axis(AX)	1 ~ 180° (Increments : 1°)
Cylinder Form	-,+,MIX
Pupil Distance(PD)	10 ~ 88mm
Minimum Pupil Diameter	Ø2.0mm
KERATOMETRY	
Radius of Curvature	5.0 ~ 13.0mm (Increments : 0.01mm)
Corneal Power	25.96 ~ 67.50D (when cornea equivalent refractive index is 1.3375) (Increments : 0.05/0.12/0.25D)
Corneal Astigmatism	0.00 ~ -15.00D (Increments : 0.05/0.12/0.25D)

Axis	1 ~ 180° (Increments : 1°)
Environmental Requirements	
Operation	Temperature:+10 to +40°C Humidity:30 to 85% RH Atmospheric pressure:70 to 106kPa
Storage & Transportation	Temperature:-10 to +55°C Humidity:10 to 95% RH Atmospheric pressure:50 to 106kPa
OTHERS	
Corneal Diameter	2.0 ~ 14.0mm (Increments : 0.1mm)
Memory of Data	10 measured value for each eye
Internal Printer	Thermal line printer with Auto - Cutter function
Monitor	17.78 cm(7 inch) TFT-LCD (800 × 480 pixels tilting/swivel, Touch-Screen function)
Power supply	AC100-240V, 50/60Hz
Dimensions	Approximately 260(W) × 500(D) × 450(H)mm
Weight	Approximately 20kg

8.2 Specifications

Refractometry

Vertex Distance (VD)	0.0, 12.0, 13.5, 15.0 mm
Sphere Power (SPH)	-30.00 ~ +25.00 D (at the vertex distance of 12 mm) (Increments selectable between 0.12 and 0.25 D)
Cylinder Power (CYL)	0.00 ~ ±10.00 D (Increments selectable between 0.12 and 0.25 D)
Axis (AX)	1 ~ 180° (Increments: 1°)
Cylinder Form	-, +, MIX
Minimum Pupil Diameter	Ø 2.0 mm

Keratometry

Radius of Curvature	5.0 ~ 13.0 mm (Increments: 0.01 mm)
Corneal Power	25.96 ~ 67.50 D (n = 1.3375) (Increments selectable from 0.05, 0.12, 0.25 D)
Corneal astigmatism	0.00 ~ -15.00 D (Increments selectable from 0.05, 0.12, 0.25 D)
Axis	1 ~ 180° (Increments: 1°)
Pupil Distance (PD)	10 ~ 88 mm
Corneal Diameter	2.0 ~ 14.0 mm (Increments: 0.1 mm)
Working range of auto-tracking	Up and down ±16mm
Working range of auto-shooting	Up and down ±0.13mm or less
Memory of Data	10 measured value for each right and left eye
Internal Printer	Thermal line printer with Auto-Cutter function
Monitor	7-inch TFT LCD monitor (800x480 pixels, tiltable/swivel)
Environmental requirements	
Operation	Temperature: +10 to +40°C Humidity: 30 to 85% RH Atmospheric pressure: 70 to 106 kPa
Storage and Transportation	Temperature: -10 to +55°C Humidity: 10 to 95% RH Atmospheric pressure: 50 to 106 kPa
Power supply	AC100-240V, 50/60Hz
Power consumption	40 ~ 60 VA
Size	Approximately 260(W) × 500(D) × 450(H) mm
Weight	Approximately 20kg