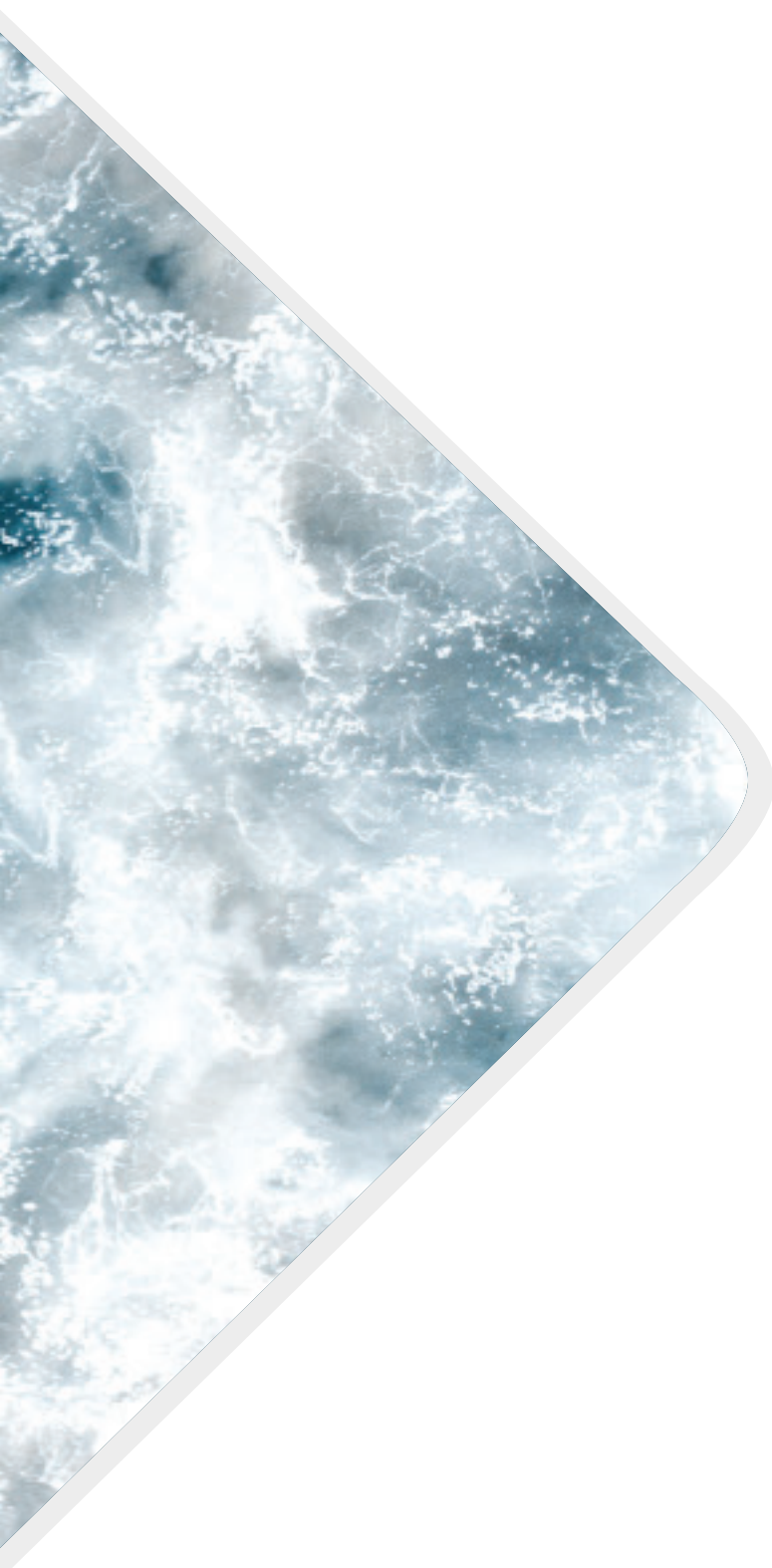




POTEC

Unveiling More Than Your Sight

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Greetings



Since its inception in 2002, POTECH Co., Ltd. has aimed to establish itself as a global leader in the optometric and optical equipment industry through continuous innovation.

Our vision care products are globally recognized for their superior measurement accuracy and competitive pricing, which have built a strong trust and loyalty among customers worldwide.

Leveraging this foundation of customer confidence, POTECH is committed to delivering unique products and tailored services that not only meet but exceed the expectations of our esteemed clients. We will relentlessly pursue excellence in all our endeavors.

Thank you for your unwavering support.



Ko An-Soo, CEO,
POTECH Co., Ltd.

CONTENTS

History

2002	Established POTE Co., Ltd. Launching PRK-5000
2003	Established R&D center
2007	Launching PRK-6000
2009	Launching PACP-7000
2010	Launching PLC-7000
2012	Launching PDR-7000, PLM-6100
2014	Launching PRK-7000
2016	Launching PRK-8000, PLC-8000
2018	Launching PLM-8000
2021	Launching PACP-8000
2024	Launching PLC-9000
2025	Expected to launch the New PRK

Auto Ref-Keratometer

✦ PRK-9000	04 05
✦ PRK-8000	06 07
✦ PRK-7000	08 09

Chart

✦ PACP-8000	10 11
✦ PLC-9000(Pola)	12 13

Auto Lensmeter

✦ PLM-8000(PD)	14 15
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Digital Refractor

✦ PDR-7000	16 17
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Refraction Unit

✦ POS-7000	19
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POTEC

PRK-9000

Auto Ref-Keratometer

Next-Gen Auto Ref-Keratometer
for Fast, Accurate & Comprehensive Vision Analysis.



3D/2D Semi Auto Pupil Tracking

The three/two-dimensional automatic eye detection and focusing mechanism enables effortless and precise refractometry (-30D ~ +25D) and keratometry (5.0mm ~ 13.0mm) measurements, powered by advanced algorithms and a high-speed image processor.

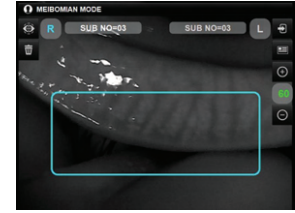


Button			
Automatically align up and down, left and right directions	Auto	Auto	Manual
Automatically align front and back directions	Auto	Manual	Manual



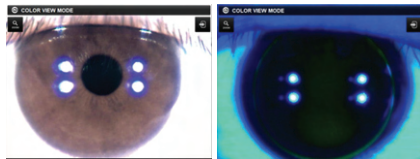
Pre-Dry Eye Syndrome Observation

Meibomian gland dysfunction is a primary contributor to dry eye syndrome. The PRK-9000 employs infrared imaging technology to obtain high-contrast images of the Meibomian glands, facilitating the early identification and monitoring of pre-dry eye syndrome resulting from gland dysfunction.



Color View Mode

The integration of a new color camera and LED lighting facilitates the examination of primary ocular conditions, including cornea, iris, pupil and etc.



Connectivity

Seamless integration is essential for versatile device usage in various settings. The PRK-9000 is equipped with RS-232C, Wi-Fi, and LAN connectivity, ensuring universal compatibility with standard platforms.

Near Vision Simulation

The necessity for progressive lenses can be evaluated through the "Near Vision Simulation." Upon completion of a refractive measurement, additional diopter power between +0.00D and +3.50D can be administered in increments of 0.25D or 0.50D, allowing for a comprehensive analysis of presbyopia.

Specifications

> Refractometry	
Vertex Distance (VD)	0.0, 10.0, 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
Pupil Distance	Maximum 88 mm
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°)
> Environmental requirements	
Operating Environment	Temperature: +10 to +40 °C Humidity: 30 to 90% RH Pressure: 800hPA ~ 1060hPA
Storage Environment	Temperature: -10 to +55 °C Humidity: 10 to 95% RH Pressure: 700hPA ~ 1060hPA
Transport Environment	Temperature: -40 °C ~ +70 °C Humidity: 10 to 95% RH Pressure: 500hPA ~ 1060hPA

> Others	
Corneal Diameter	2.0 ~ 14.0mm (Increments: 0.1mm)
Memory of Data	10 measured value for each right and left eye
Internal Printer	Thermal line printer with Auto-Cutter function
Monitor	8-inch TFT LCD monitor(800x600 pixels, tiltable/swivel)
3D Auto Tracking Range	X: 10mm (±2mm) Y: 10mm (±2mm) Z: 10mm (±2mm)
Chinrest	Motorized
Interface	RS-232C, LAN, Wi-Fi, HDMI
Update	USB (A type) memory card
Power Supply	AC100-240V, 50/60Hz
Power Consumption	55-85 VA
Dimensions	Approximately 260(W) x 520(D) x 480(H) mm
Weight	Approximately 20kg

PRK-8000

Auto Ref-Keratometer

High-Precision Auto Ref-Keratometer
with Retro Illumination.



| Y-axis 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.

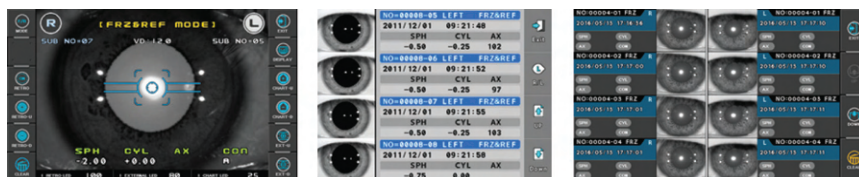


| Near Vision Simulation

Determine the necessity of progressive lenses with the "Near Vision Simulation." Once a refractive measurement is completed, further diopter power between +0.00D and +3.50D can be applied in 0.25D or 0.50D increments to ensure a comprehensive examination of presbyopia.

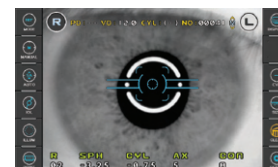
Retro - illum Mode

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.



Extensive Dioptric Measurement Range

PRK-8000 provides an extensive dioptric measurement range (-30D ~ +25D), and the radius of curvature for keratometry range (5.0mm ~13.0mm) help to measure almost all human eye.



Electronic Joystick

Power of electronic joystick provides soft & smooth operation experience.



Tilting & Swivel LCD

(User-oriented tilting LCD Screen) 7 inch (800x480) LCD display.
· Tilt : 180°, Swivel : 135 ~ 145° · Automatic screen vertical inversion.



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
Pupil Distance	10 ~ 88 mm
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°)
>Environmental requirements	
Operating Environment	Temperature: +10 to +40 °C Humidity: 30 to 90% RH Pressure: 800hPA ~ 1060hPA
Storage Environment	Temperature: -10 to +55 °C Humidity: 10 to 95% RH Pressure: 700hPA ~ 1060hPA
Transport Environment	Temperature: -40 °C ~ +70 °C Humidity: 10 to 95% RH Pressure: 500hPA ~ 1060hPA

>Others	
Corneal Diameter	2.0 ~ 14.0 mm (Increments: 0.1 mm)
Working range	Up and down ±16mm
Working range of auto-tracking	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)
Interface	VGA, RS-232C, USB (B type)
Power supply	AC100-240V, 50/60Hz
Power consumption	40 ~ 60 VA
Dimension	Approximately 260(W) x 500(D) x 450(H) mm
Weight	Approximately 20kg

PRK-7000

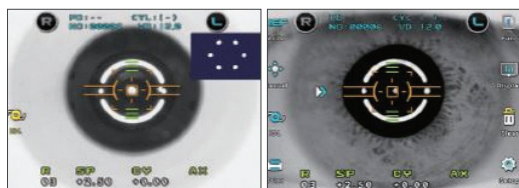
Auto Ref-Keratometer

High-Accuracy Auto Ref-Keratometer Trusted by Professionals Worldwide.



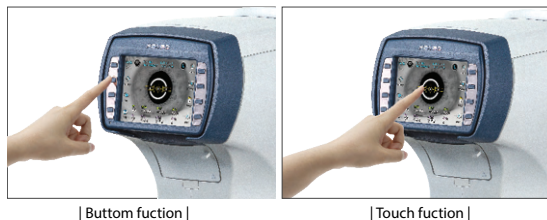
| Assistant Measurement

It provides the assistant measurement function for the eyes which have different measurements between the center of miring and the center of REF focus.



TFT-LCD with Touch Screen and Convenient Control

By adopting high resolution VGA TFT-LCD with Touch Screen function, tests are performed rapidly and conveniently by simply pressing a button or the icon displayed on the screen.

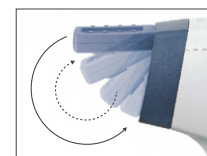


Motorized Chinrest

The chinrest is motorized with the use of a switch conveniently positioned for the operator.

The Tilting LCD for User

The 90° tilting LCD provides easy control at any position.



Smarter Integrated Printer

It is equipped with auto-cutting printer that provides not only immediate printout of the measurement, but also auto cutting feature and paper-saving economy mode.

The Guidance Function for Measuring

It indicates the directions for focusing the center of the measuring eye and shows the conditions of focusing for the measurement convenience

Specifications

>Refractometry	
Vertex Distance (VD)	0.0, 12.0, 13.5, 15.0 mm
Sphere Power (SPH)	-25.00 ~ +22.00 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
Pupil Distance	10 ~ 88 mm
Minimum Pupil Diameter	Ø 2.0 mm
>Keratometry	
Radius of Curvature	5.0 ~ 10.2 mm (Increments: 0.01 mm)
Corneal Power	33.00 ~ 67.50 D (when cornea equivalent refractive index is 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°)
>Environmental requirements	
Operating Environment	Temperature: +10 to +40 °C Humidity: 30 to 90% RH Pressure: 800hPA ~ 1060hPA
Storage Environment	Temperature: -10 to +55 °C Humidity: 10 to 95% RH Pressure: 700hPA ~ 1060hPA
Transport Environment	Temperature: -40 °C ~ +70 °C Humidity: 10 to 95% RH Pressure: 500hPA ~ 1060hPA

>Others	
Corneal Diameter	2.0 ~ 14.0 mm (Increments: 0.1 mm)
Memory of Data	10 measured value for each right and left eye
Internal Printer	Thermal line printer with Auto-Cutter function
Monitor	5.7-inch TFT LCD monitor
Interface	VGA, RS-232C, USB (B type)
Power supply	AC100-240V, 50/60Hz
Power consumption	40 ~ 60 VA
Dimension	Approximately 260(W) x 500(D) x 450(H) mm
Weight	Approximately 20kg

PACP-8000

Visual Acuity Chart Projector

High-Definition Acuity Chart Projector
for Accurate Vision Assessment.



| Eyesight Measurement Using Diversified Charts

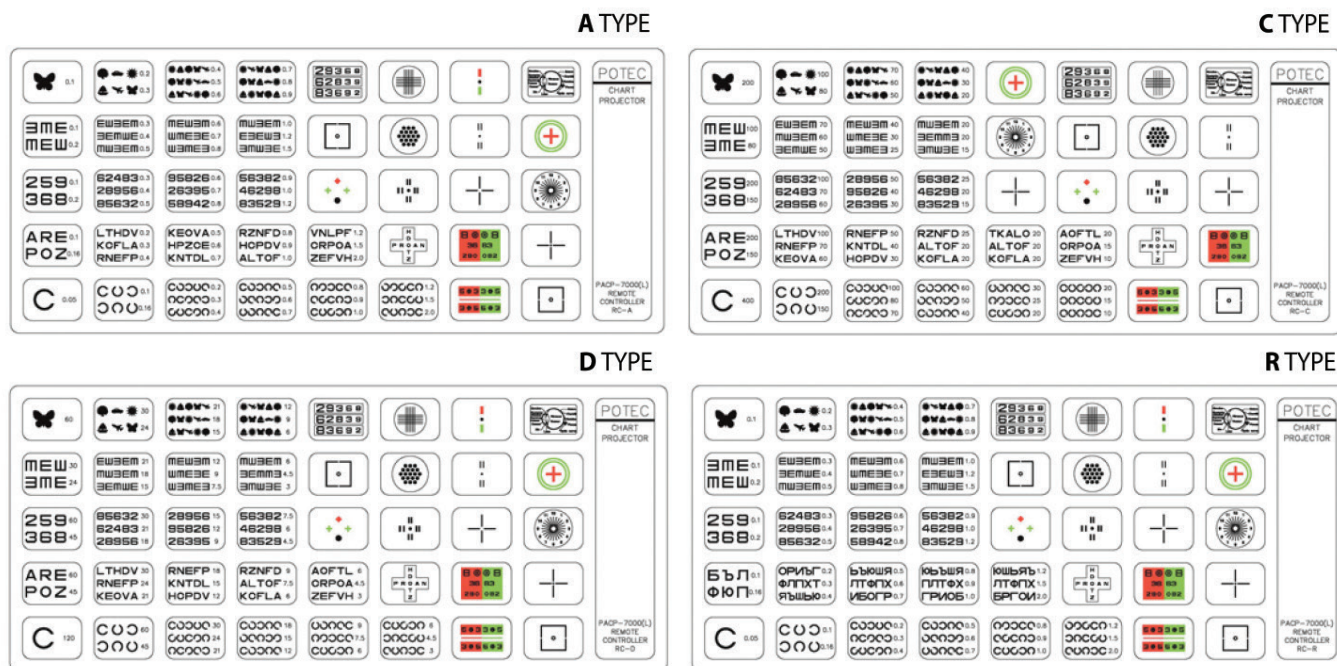
Diversified charts (4 types of A/C/D/R) per country are retained including binocular balance, aniseikonia, stereopsis, binocular vision test chart.

| Cost Saving Through Adoption of LED Light Source

Maintenance & repair costs can be saved through adoption of LED light source having a semi-permanent service life.

| Bright & Clearer Chart Display

Brighter & clearer chart display is provided by adoption of white LED



Refined Design

Optometry room is made to stand out with the refined design embodying an eyeball.

Compact Size

A roomy optometry space is provided using a more compact size.

Size: 25% Reduction comparing with PACP-7000

Weight: 25% lighter than PACP-7000

Convenient Focus Adjustment

Convenient focus adjustment is enabled by the rotary aperture.

Specifications

Charts	42Charts
Distance of projection	2.5~8m (optional, 8m screen Buy Specifications)
Chart magnification	30x (When projected at 5m distance)
Lamp	LED Lamp
Chart Rotation Speed	Average 0.2sec
Power Save	11 minutes (after last signal)
Tilt angle	±20 degrees
Resolution	50 lines / mm
Program	2 programs with a maximum of 40 charts each
Power Supply	100-240V~, 50/60Hz
Power consumption	25-35VA
Dimension	Body (Exclude Stand) : 200(W)×290(D)×172(H) mm Body (Include Stand) : 200(W)×290(D)×235(H) mm Remote Controller : 64(W)×196(D)×20(H) mm
Weight	Body : 3.58 kg(Stand included) Remote Controller : 160 g (Battery included)

>Environmental requirements	
Operating Environment	Temperature: +10 to +40℃ Humidity: 30 to 90% RH Pressure: 800hPA ~ 1060hPA
Storage Environment	Temperature: -10 to +55℃ Humidity: 10 to 95% RH Pressure: 700hPA ~ 1060hPA
Transport Environment	Temperature: -40℃ ~ +70℃ Humidity: 10 to 95% RH Pressure: 500hPA ~ 1060hPA

PLC-9000(Pola)

LCD Acuity Chart

Universal Digital Eye Chart
with Easy Personalization.

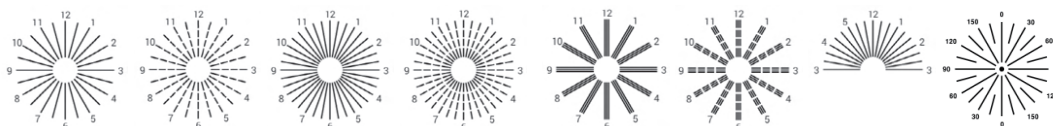


Wide Range of Visual Acuity Chart

High resolution of 350cd/m² bright 23.8 inch LCD display offer Alphabet, digit, Snellen, Landolt ring, Pediatric Eye Chart by 16 steps measurement range from 0.05 to 2.0

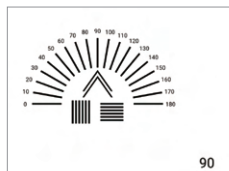
Diversification of Astigmatism Test Charts

The astigmatism test charts are sharply extended to 8 types from a single type compared to existing products, which allows various testing conditions.



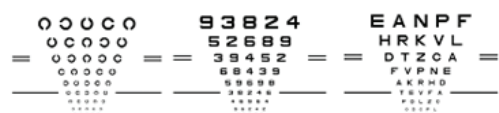
Introduction of Astigmatism Fan & Block Charts

The addition of fan and block charts to general astigmatism test functions allows more accurate astigmatism test.



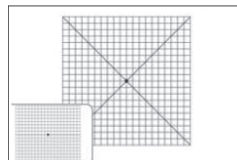
Diversification of ETDRS Charts

Compared to the existing products with only a Landolt C given, the letters and numbers are provided to meet more various ETDRS testing environments.



Amsler Grid Chart

Amsler grid chart is provided for testing macular degeneration and lesions.

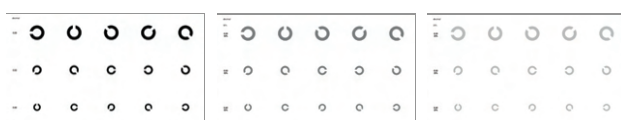


Maddox Rod Test

In addition to various acuity charts, it features integrated vertical and horizontal LED light sources, facilitating the Maddox Rod Test for efficient evaluation of heterophoria.

Contrast Test

It enables to perform 13 steps of letter contrast sensitivity test to identify poor night vision issue.



Measurement Distance

The distances for measurement are adjustable in

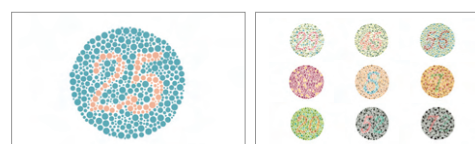
0.25m steps, spanning from 1.0m to 8.0m, to effectively meet the needs of various refraction room environments.

Easy Customized Fonts Update

Features a broad variety of customizable fonts to address the distinct preferences of clients. Moreover, it enables the straightforward inclusion of extra fonts upon client request.



Various Charts for Color Blindness Test



Easy Maintenance

The USB port enables effortless software upgrades and data file management, ensuring smooth and efficient device maintenance.

Specifications

Distance of projection	1.0~8.0m (0.25 step adjustment)
Charts	Landolt, English, Numerals, Snellen, Children Specail Chart, Color Blindness Mask(Horizontal, Vertical, Single)
Program	2 programs with a maximum of 40 charts each
Interface	USB(USB3.0), RS-232C
Communication	Wired: RS-232C Wireless: Wi-Fi
LCD	23.8 inch Full-HD
Momory Card	eMMC(8GB)
Power Supply	DC 12V
Power consumption	25W
Dimension	Body : 585(W) X 54(D) X 363(H) mm Remote controller : 64(W) X 196(D) X 20(H) mm
Weight	Body: About 4.9kg Wall Mount Bracket : 260g Remote controller : 160g (Battery included)
>Environmental requirements	
Operating Environment	Temperature: +10 to +40℃ Humidity: 30 to 90% RH Pressure: 800hPA ~ 1060hPA
Storage Environment	Temperature: -10 to +55℃ Humidity: 10 to 95% RH Pressure: 700hPA ~ 1060hPA
Transport Environment	Temperature: -40℃ ~ +70℃ Humidity: 10 to 95% RH Pressure: 500hPA ~ 1060hPA

PLM-8000(PD)

Auto Lensmeter

Advanced Auto Lensmeter
with Smart Detection & UV/Blue Ray Measurement.



HWFS Technology Adopted

The HWFS-based technology and the algorithm compensating for light loss are adopted to minimize the measurement error and produce more accurate value.



Automatic Lens Detection Mode

At the time of measurement, the system provides the automatic detection mode, which determines the lens type, automatically switches to the corresponding mode, and enables an instant measurement. In a normal lens mode, it is possible to measure double lens and triple lens.



Green Measurement Light Source

The system minimizes measurement errors by green measurement light sources of wavelength close to the international standard, e-line.

Auto Cutting Printer

The system uses a low-noise, high-speed auto cutting printer to enable you to output and check the measurement data on the spot and to present the data to customers quickly.

Multilingual Support

The system supports six languages: English, French, Portuguese, Greece, Chinese, Japanese and Arabic.

Various Available Interfaces (RS-232C, Optional Wi-Fi)

It is possible to support the integrated system management with Wi-Fi communication to exchange data with the Digital Reflector and the Auto Ref-Keratometer regardless of working conditions. Using RS-232C also allows you to interface with existing systems.

Specifications

> Measurement	
Sphere power(SPH)	-25D ~ +25 D (0.01 / 0.06 / 0.12 / 0.25 D steps)
Cylinder power(CYL)	0D ~ ±10 D (0.01 / 0.06 / 0.12 / 0.25 D steps)
Axis(AX)	0° ~ 180° (1° step)
Addition power	0 ~ +10 D (0.01 / 0.06 / 0.12 / 0.25 D steps)
Prism power	0 ~ 20 Δ
Transmittance(UV, Blue)	0 ~ 100%
> Measurement Mode	
Cylinder Mode	-, +, MIX
Prism Mode	Rectangular / Polar
Display	7.0 inch TFT COLOR LCD Monitor, Touch
Wave	e-line, d-line
Abbe value	30 ~ 60
> Environmental requirements	
Operating Environment	Temperature: +10 to +40℃ Humidity: 30 to 90% RH Pressure: 800hPA ~ 1060hPA
Storage Environment	Temperature: -10 to +55℃ Humidity: 10 to 95% RH Pressure: 700hPA ~ 1060hPA
Transport Environment	Temperature: -40℃ ~ +70℃ Humidity: 10 to 95% RH Pressure: 500hPA ~ 1060hPA

LCD Tilting Function

A wide tilting angle of LCD provides you with a bright and clear screen view.



UV/Blue Light Transmittance Measurement

It is possible to measure the Ultraviolet (UV) and blue light transmittance of lens.



| UV Transmittance Measurement Mode |



| Blue Light Transmittance Measurement Mode |



| UV-Blue Light Transmittance Measurement Mode |

Others	
LED wavelength	525nm, 400nm(UV), 420nm(BLUE)
Lens diameter	Max. approx. 120 mm
Marking system	Ink Cartridge type
Interface	RS-232C, USB (A type)
Printer	Thermal line printer with auto cutter
Rated Voltage	100-240V~, 50/60Hz
Power consumption	35-55VA
Size	198(W)x245(D)x420(H)mm
Weight	Approximately 5kg (only equipment)

PDR-7000

Digital Refractor

Smart Digital Refractor
with Intelligent vision testing.



| Supply Dual Cross Cylinder Lens

Dual cross cylinder lens makes more accurate and easy for astigmatism tests.

| Near Sight Test

Various acuity charts enable to perform near sight test easily.

| Practical Viewing Angle

Enable the practical test with the viewing angle, 40 degree.

| PD Adjustment and Fast Lens Rotation

Independent Left / Right PD adjustment enhances the reliability of test results using an eye chart by bright illumination of LED light. Fast lens rotation speed minimizes eye fatigue.



Useful and Convenient Vision Test Features

By useful vision test function, it is easy to explain to patients and make them understand about various refractive error and diseased as well as near visual acuity with near eye chart and auxiliary eye chart, and eye chart can be selected depending on user's taste and the purpose.

Providing Tilting & Swivel Monitor

Regardless of the position of the patient and the optometrist, the screen can be shared any angle and direction.



Provide Large Screen and Convenient Touch Screen Display

As progress of diagnose and figures are expressed in an 10.4 inch wide screen with intuitive interface and various colors, it is easy to understand and aware of the test contents, and due to adopting touch-screen, optometry progress can be progressed easily even if optometrists do not familiar with the operation.

Wireless Networking (Optional)

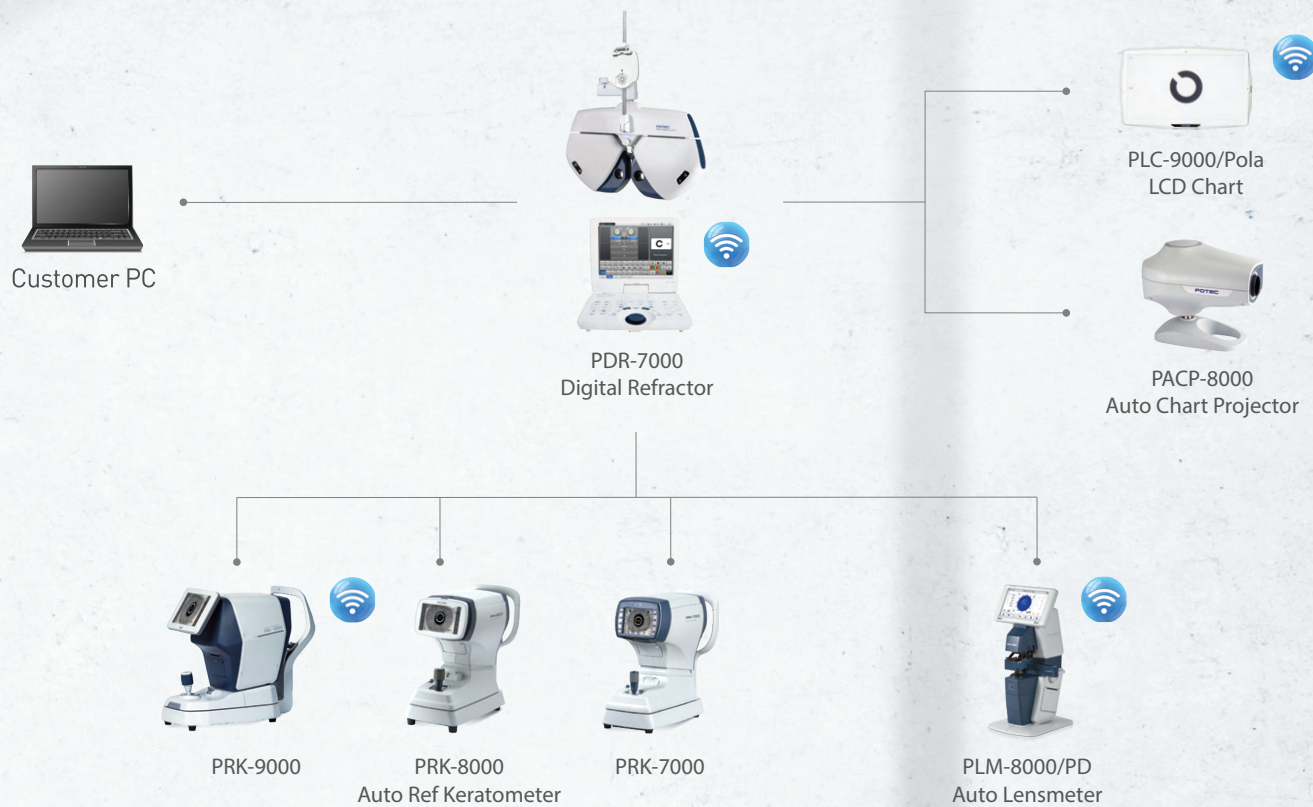
It can be connected to PRK-9000, PLC-9000 and PLM-8000 via Wi-Fi.

Specifications

> Measurable range	
Spherical power	-29.00 ~ +26.75D (In increments of 0.12, 0.25, 0.5, 1, 2, 3D) -19.00 ~ +16.75D (Cross cylinder test, prism test)
Cylindrical power	0.00 ~ ±8.75D (In increments of 0.25, 0.5, 1, 2, 3D)
Cylindrical axis	0 ~ 180° (In increments of 1°, 5°, 15°)
Pupillary distance	48 ~ 80 mm (Far mode, in increments of 0.5/1mm) 50 ~ 74 mm (Near working distance of 35 cm) 54 ~ 80 mm (Fad PD possible for 100% convergence)
Prism	0 ~ 20Δ (In increments of 0.1Δ, 0.5Δ, 2Δ)
Refractor head	
Auxiliary lens	Cross cylinder lens (±0.25D, ±0.50D, ±0.25D auto-cross cylinder lens) Occluder Pinhole plate (φ2 mm) Red-green filter (Right eye = red, Left eye = green) Polarizing filters (Right eye = 135° / Left eye = 45°, Right Eye = 45° / Left Eye = 135°) Fixed cross cylinder lens (±0.50 D) Spherical lenses for Retinoscope (+1.5 D / +2.0D) Red Maddox rod (Right eye = horizontal, Left eye = vertical) Dissociation prism (Right eye = 6ΔBU, Left Eye = 10ΔBI) Dissociation prism (Right eye = 3ΔBD, Left Eye = 10ΔBU)
Visual field	40° (VD = 12 mm) 39° (VD = 13.75 mm)
Refraction distance for near vision	350 to 700 mm (selectable in increments of 50 mm)
Forehead rest adjustment range	14±2 mm
Vertex distance marking	12 mm, 14 mm, 16 mm, 18 mm, 20 mm
Level adjustment	±2.5°
> Control box	
Display	Color TFT-LCD (10.4inch) with touch panel)
Printer	Built-in thermal

Power specification	
Power source	AC 110/240V (±10%)
Frequency	50/60Hz
Power consumption	110VA
> Environmental requirements	
Operating Environment	Temperature: +10 to +40 °C Humidity: 30 to 90% RH Pressure: 800hPA ~ 1060hPA
Storage Environment	Temperature: -10 to +55 °C Humidity: 10 to 95% RH Pressure: 700hPA ~ 1060hPA
Transport Environment	Temperature: -40 °C ~ +70 °C Humidity: 10 to 95% RH Pressure: 500hPA ~ 1060hPA

System Networking



POS-7000

Refraction Unit

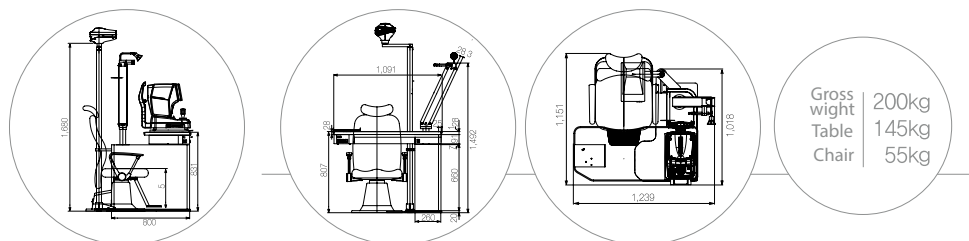
Compact & Elegant Refraction Unit
for Complete Eye Exams.



Simple & compact Refraction Unit

Convenient Ophthalmic Refraction Unit with simple smart design.

One touch auto adjusting arm | 90° rotatable table



Specifications

> Size	1,240 (W) x 1,151 (D) x 1,875 (H)mm
> Table size	1,090 (W) x 480 (D) x 29 (T)mm
> Revolving angle of a table	90°
> Head Movement	535mm (left-right)

> Power arm s-axis Movement	±70 mm
> Chair up down movement	180mm
> Bulbs	12V halogen
> Power supply	220V 5A
> Power consumption	300W (Max)