

Created with POTEK's state-of-the-art digital technology, PRK-5000 is an innovative Power Auto Ref-Keratometer for the next generation.



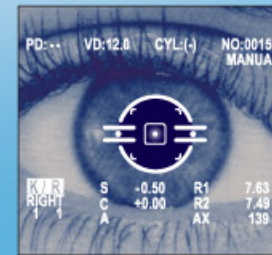
Multi-functional Power Auto Ref-keratometer for the next generation.



Improved Functionality

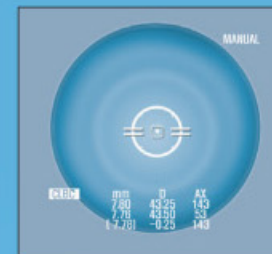


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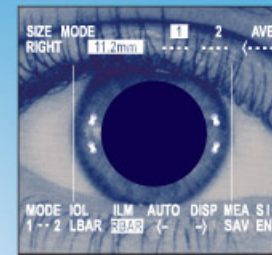
▶▶ Refraction & Keratometry Measurement

POTEK PRK-5000 Provides an extensive range of dioptric measurement range. It covers -25D to +22D, and the radius of curvature for keratometry is 5.0mm to 10.2mm. Owing to its easy alignment and friendly operation you can measure the refraction and keratometry in a sequency, the results can be checked all at once.



▶▶ CLBC (Contact Lens Base Curve)

Base Curve (Posterior curve) of hard contact lens can be measured using contact lens holder on the back of the model eye. You can inspect the lens, or distinguish between the right and left lenses whenever they are switched.



▶▶ Diameter Measurement

Using the PRK-5000's Freeze Function, you can measure the diameter of the cornea, pupil or hard contact lenses worn by an examinee. Since the image of the eye is frozen, the process is both easier and more precise.

Printing Example

```

POTEK PRK-5000
2002/10/24 07:15:58
NO. 00157
NAME:

[ REF ] VD: 12.0
          Cyl  Form: [-]

(R)  SPH  CYL  AX
     -1.50 +0.00
     -1.75 +0.00
     -1.50 +0.00
AVE  -1.50 +0.00

(L)  SPH  CYL  AX
     -1.00 -0.50 167
     -1.00 -0.25 165
     -1.50 -0.25 153
AVE  -1.00 -0.50 166

PD = 62mm

[ KER ] Index: 1.3375
(R)  R1  R2  AX
     7.77  7.84  172
     7.76  7.85  169
     7.77  7.81  7
mm  D  AX
R1  7.77  43.50  176
R2  7.63  44.25  86
AVE  7.70  44.00
CYL  -0.75  176

(L)  R1  R2  AX
     7.84  7.67  188
     7.82  7.72  7
     7.84  7.67  3
mm  D  AX
R1  7.83  43.00  4
R2  7.69  44.00  94
AVE  7.76  43.50
CYL  -1.00  4

RIGHT & LEFT
[Diagram showing eye alignment]
POTEK CO., LTD.
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▶▶ Automatic PD measurement

The pupil distance is automatically measured and displayed after refraction measurement of both eyes is performed.

▶▶ Automatic Power Saving

When the PRK-5000 is not in use more than 5minutes, a built-in power saving function eliminates current to the TV monitor and lighting circuitry. It conserve energy and prevent any build-up of heat from electronic circuitry, increasing its useful life.

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Three exclusive functions of POTEK Auto Ref-Keratometer

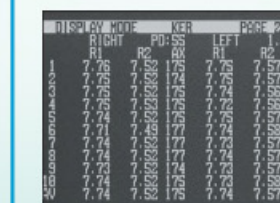
- 1 RELIABLE & ACCURATE**
REF/KER measurement, Wide measurement range
Various function for user convenience.
- 2 SLIM & SMART**
Compact Body for Space saving Ergonomically
Designed Operation Environment.
- 3 High Quality vs Good Price**
Economic price & Excellent Functions
Do not need Too-Expensive RK's any more.

POTEK PRK-5000



▶▶ Color photo target

This color photo target with wide angle of view allows the examinee to be more relaxed, making eye fixation easier. The auto-fogging function reduces the effects of instrument myopia and patient accommodation, especially helpful with children and patients with difficult eyes.



▶▶ Display data instantly

Through monitor, you can see the results (maximum of 10 data for each eye) of measurements stored in memory. Also it can be printed out using built-in printer.



Optimized Convenience



▶▶ Operation panel

The innovative design with advanced technologies created compact operation panel. It also included power lamp and Stage holding knob for user convenience.



▶▶ Joystick for Easy of operation

The PRK-5000 utilizes a convenient omni-directional joystick. Alignment and measurement can be performed with a one-handed operation. Even novice operators can obtain excellent results every time.



▶▶ Printer

Simply press the "PRINT" button, and the PRK-5000 will immediately provides a complete printout of the measurement results. For user convenience, built-in printer is located at front-right side of PRK-5000.

▶▶▶ Data transfer

Measurement data can be transferred to external devices (personal computer, etc.) via RS-232 interface.



Specifications

MEASUREMENT MODES

| |
|---|
| Continuous Keratometry and Refractometry (K/R Mode) |
| Refractometry (REF Mode) |
| Keratometry (KER Mode) |
| Contact Lens Base Curve Measurement (CLBC Mode) |

REFRACTOMETRY

| | |
|------------------------|---|
| Vertex Distance (VD) | 0.0, 12.0, 13.5 |
| Sphere (SPH) | -25.00 ~ +22.00D (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 ~ 85mm |
| Minimum Pupil Diameter | φ 2.0mm |

KERATOMETRY

| | |
|---------------------|---|
| Radius of Curvature | 5.0 ~ 10.2mm (Increments : 0.01mm) |
| Corneal Power | 33.00 ~ 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°) |

OTHERS

| | |
|------------------|---|
| Corneal Diameter | 2.0 ~ 12.0mm (Increments : 0.1mm) |
| Memory of Data | 10 measurements for each eye |
| Internal Printer | Thermal line printer |
| Power supply | AC100 ~240V, 50/60Hz (Free Voltage, Free Frequency) |
| Dimensions | Approx. 300(W) 500(D) 430(H)mm |
| Weight | Approx. 20kg |

* Subject to change in design and / or specifications without prior notice.

AUTO REF-KERATOMETER

POTEC PRK-5000

Reliable & Accurate



POTEC, a new mecca of an advanced optical technology.
POTEC will lead the optical technology in the 21st century with its digital technology.

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