

■ Easier, more comfortable operation

The RK-F1 replaces the conventional joystick with a trackball and roller tandem that eases hand movement during manual alignment. And, once the examinee's pupil is visible in the monitor, you just press the Start button to initiate—and complete—measurements of refraction and keratometry.

■ More efficient exam procedures

From the first part of the process to the last, the RK-F1 simply does things better. Its measurement head covers an exceptionally wide area, thus speeding up the auto-alignment process, and even the built-in printer delivers your printout faster than ever.

■ Increased measurement reliability

By simplifying operation, Canon's fully automated measurement technology takes on a greater share of the workload and increases the reliability of measurement data. What's more, the unit's monitor employs a deep focal point, which makes it easier for you to tell whether an examinee's eyelashes are obstructing measurement.

Full Auto Ref-Keratometer RK-F1



Specifications

REFRACTOMETRY

Sphere (SPH) -30 to +22 D when VD=12mm
(Increments: 0.12D and 0.25D)

Cylinder (CYL) 0 to ±10 D
(Increments: 0.12D and 0.25D)

Axis (AX) 1° to 180° (Increments: 1°)

Pupil distance (PD) 0 to 85 mm (Increments: 1mm)

Vertex distance (VD) 0/12/13.5 mm

Cylinder form -, +, +/-

Minimum pupil size ø 2.5mm

KERATOMETRY

Radius of curvature 5.5 to 10 mm (Increments: 0.01mm)

Corneal power 33.75 to 61.25 D when cornea
equivalent refractive index is 1.3375
(Increments: 0.05D, 0.12D, 0.25D)

Axis 1° to 180° (Increments: 1°)

Corneal periphery Measurement area: 30° when radius
of curvature is 8mm

CORNEAL DIAMETER MEASUREMENT

Corneal diameter 2.0 to 16.0 mm (Increments: 0.1mm)

Retroillumination Available; 2 images can be
stored in memory

Memory 10 measurements for each eye

Built-in printer Thermal line printer

Power-saving system Available

Power supply 100 – 240V, 50/60Hz, 0.8 – 0.4A

Dimensions (W x L x H) Approx. 280 x 520 x 470 mm

Weight Approx. 21kg

Components

| | |
|----------------------------|------------|
| Main unit | 1 |
| Power supply cable | 1 |
| Keratometry model eye | 1 |
| (with contact lens holder) | |
| Printing paper | 2 rolls |
| Chin rest paper | 100 sheets |
| Blower brush | 1 |
| Dust cover | 1 |

Optional accessories

Printing paper, chin rest paper, motorized table,
printer cable



Specifications are subject to change without notice.



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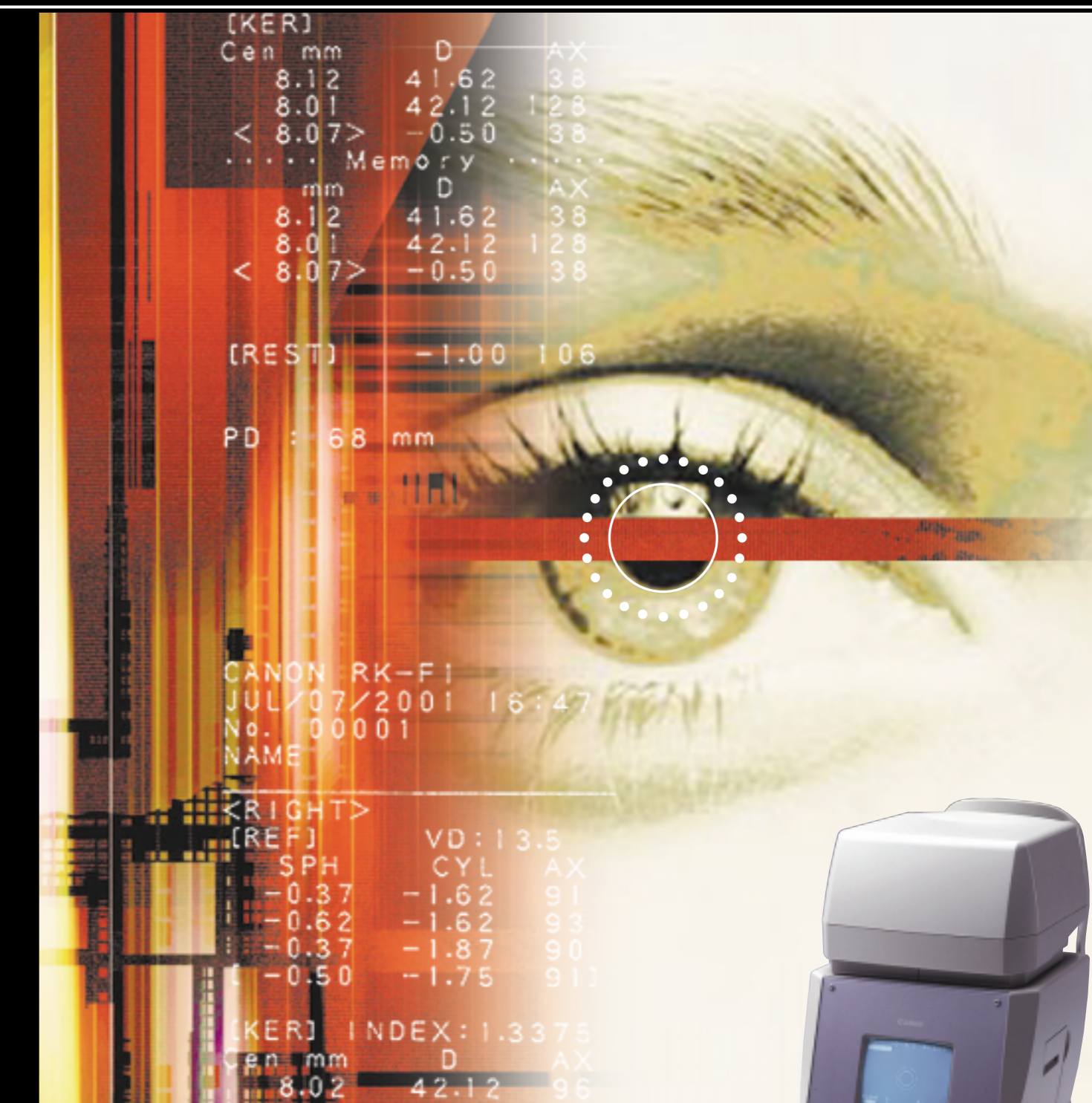
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RK-F1

Full Auto Ref-Keratometer

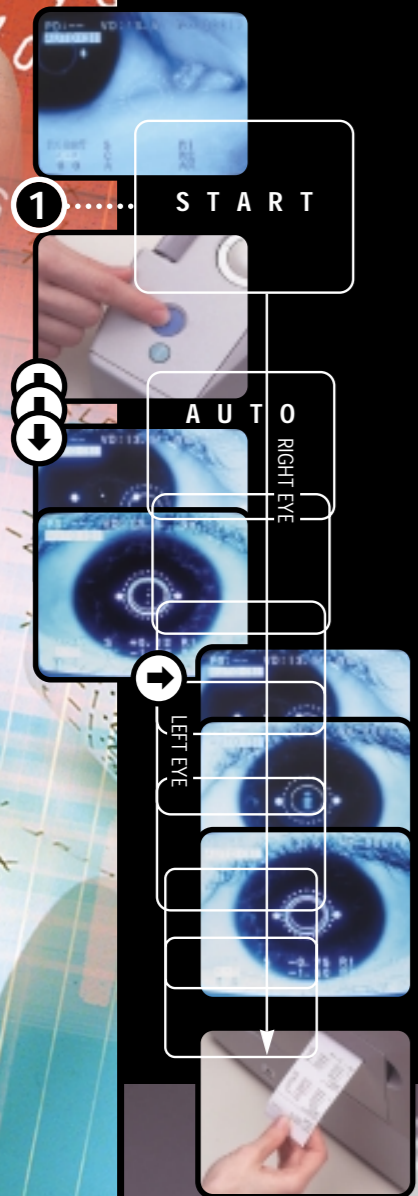


OPERATING INSTRUCTIONS: JUST PRESS START



One Touch Does It All—From Automatic Alignment to Precision Output.

For over a decade, Canon has continually set the standard for innovation in ophthalmic and optometric technology. And now, with the RK-F1 Full Auto Ref-Keratometer, we're ready to do it again. That's because the RK-F1 simplifies the standard measurement procedure to an unprecedented degree—all operations in just one step. With a press of the Start button, the RK-F1 automatically completes the entire series of steps for both eyes: alignment, measurement, and printout. This improved process promises not only to reduce overall exam time, but—in combination with improved measurement technology—will raise the accuracy and reliability of eye exams as well. Easier to use, more efficient, more precise: The Canon RK-F1 represents yet another breakthrough in optometric technology.



Reliable measurements

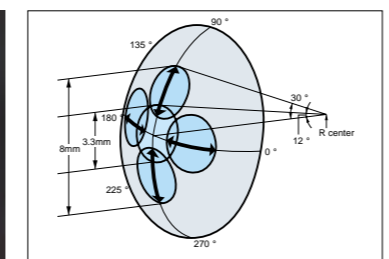
Refraction and keratometry



In terms of reliability and precision, the RK-F1's performance is second to none. For refraction, its dioptric measurement range of -30D to +22D is among the widest available, which

allows you to better examine strong myopia and other conditions. And for keratometry, the radius of curvature extends from 5.5mm to 10.0mm. As refraction and keratometry are measured in the same sequence, the final printout includes all the results together: SPH, CYL, AX, central radius of the cornea, residual astigmatism, and pupil distance. To further ensure the reliability of your data, the RK-F1 also features a small minimum pupil size requirement and an automatic fogging system with color picture target.

Corneal periphery measurement

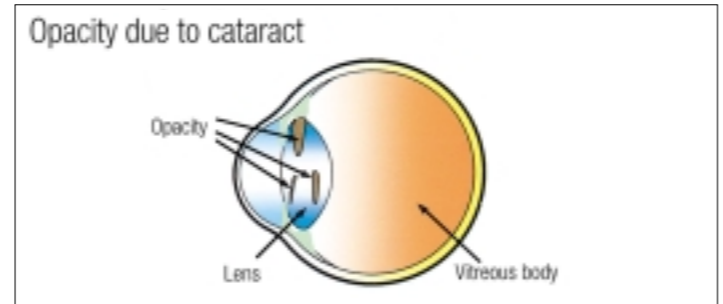


The peripheral keratometry mode provides accurate measurements for examining oblique astigmatism as well as for determining the best fit for a contact lens. The RK-F1 can be used to make a series of measurements at a 30° angle from the eye's center, along the attentive meridians. Full auto-alignment technology streamlines this procedure, as all the operator needs to do is press the Start button to confirm that the eye is properly fixated on each measurement point. Readings for the corneal astigmatism axis and corneal eccentricity (E) are automatically included on the printout.

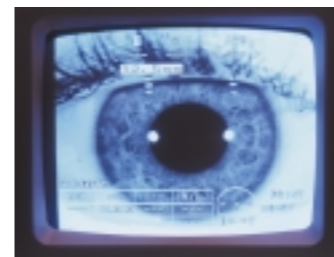


Retroillumination

Through retroillumination, the RK-F1 brings you an extremely detailed view of the eye that's particularly useful for identifying cataracts, vitreous opacity, scars, and other serious eye problems. Dust or scratches on the examinee's contact lens are also clearly visible in this mode. The RK-F1 stores up to two images, which can be selected and displayed on the monitor at a magnified size for observation.



Diameter measurement



Diameter measurements of the cornea or pupil, or of a contact lens being worn during the eye exam, are easy to acquire with the RK-F1. To ensure the accuracy of measurements, the unit first deploys its intelligent auto-alignment feature to capture an optimum still image of the eye. Next, it derives its data from the captured image. This process overcomes the obstacles posed to obtaining precise measurements by eye movement.

User-friendly design

Ergonomic controls and more



The operation panel of the RK-F1 offers an unmatched level of operator comfort at every stage of the process. First of all, manual alignment can be done using your

fingertips alone, thanks to the unique trackball and roller configuration—a major improvement over conventional joystick operation. Also, the easy-to-press control keys are grouped together to simplify access to the unit's various functions, which include vertex distance switching, measurement mode switching, and display of data stored in memory. The layout of the operation panel allows comfortable use from either a seated or standing position. In addition, the unit's body design gives you unrestricted access to the eye—an important feature when long eyelashes obstruct measurement or in other situations where the examinee's eyelid needs to be lifted.

Motorized chin rest

A motorized chin rest makes it easy to adjust the RK-F1 when beginning the eye exam. The chin rest can be moved up and down to match the examinee's height using a pair of keys located on the unit's operation panel.



A great fit in any exam area

The RK-F1 features a stylish, original body design that does more than just change the notion of what optometric equipment can look like. Because its measurement head is the only part that moves, examinees are free to place their hands, eyeglasses, or belongings next to the unit while their eyes are being checked—a nice benefit especially if exam space is limited. Furthermore, the power cord connects to the bottom of the unit, which contributes to tidy installation.



Universal power supply

The RK-F1 comes complete with an automatic voltage switching capability, to facilitate setup in practically any operating environment. And, because it conforms to internationally recognized UL standards for electrical safety, you can be assured of safe, secure use of the unit at all times.

