

Canon



RK-F3M

Full Auto
Ref-Keratometer

Large 10.4 inch color touch panel LCD

Besides providing an intuitive interface for operation, the RK-F3 can also show the measurement results in various ways. This is very helpful when discussing the examination results with your clients. .



The RK-F3m Full Auto Ref-Keratometer

Provides more than just reliable objective refraction and keratometry measurements:

- Refraction can be measured under various light conditions: scotopic, mesopic and photopic
- Automatic peripheral keratometry measurement
- Precise measurement indications of 0.01 D
- Corneal white-to-white measurement
- Retro illumination imaging
- Objective accommodation measurement

The measurement accuracy and extensive measurement modes make the device very suitable for use in optical stores as well as hospitals.

Easy to use and fully automatic





Screen can be tilted up to 40°, so the device can be used while seated or standing.



The screen can be turned 90° to the left or right to adapt to the layout of the room.

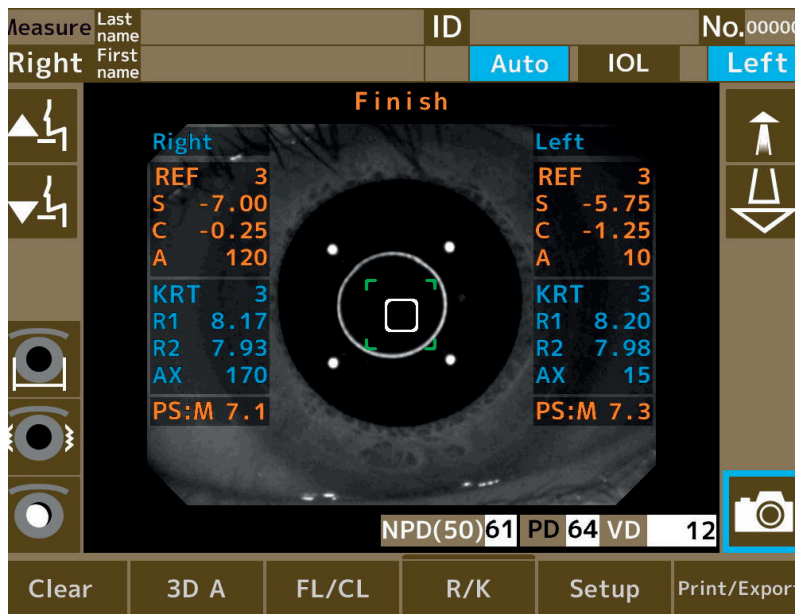
Versatile placement

Thanks to the small footprint and operation freedom provided by the rotating and tiltable touch screen, the **RK-F3m** can be a great fit in any room.



Determine refraction and pupil size under various light conditions

By changing the brightness of the fixation target, scotopic, mesopic and photopic conditions can be created. During the measurement, both refraction and pupil size are measured automatically. Scotopic Pupil Size (SPS) measurement can also be done without any refraction measurement.



The RK-F3m provides you with extensive information to determine the right prescription.

Refraction

Accurate measurements even with small pupils (\varnothing 2.0mm)

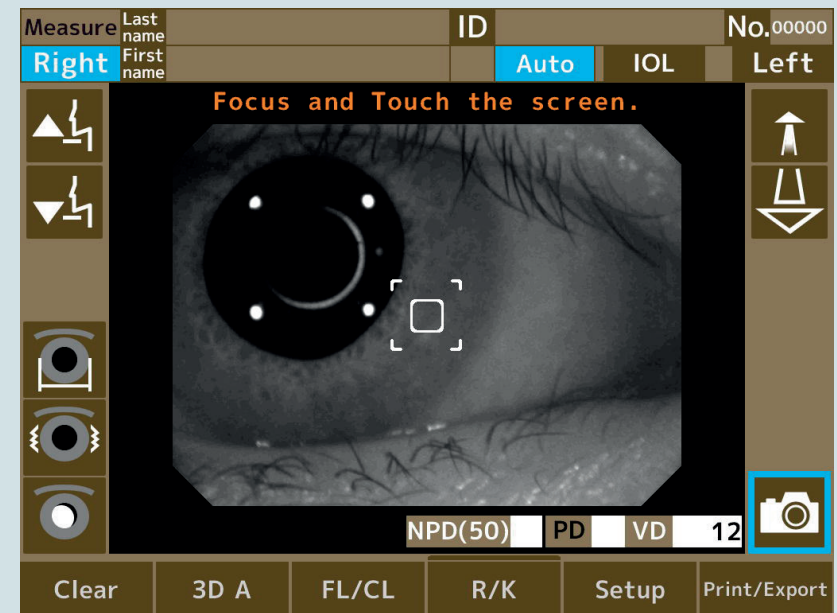
- SPH, CYL & Axis values
- Spherical equivalent power (SE)
- Refraction results under various light conditions
- IOL mode, a special measurement mode, is useful not only when the patient has an IOL, but also in case of cataracts or other opacity
- Pupil Distance (PD & NPD)
- Residual Astigmatism Value (REST)

Automatic Peripheral Keratometry

- Very helpful to enhance fitting the correct contact lens
- Automatic fixation target shift: H \rightarrow V \rightarrow S \rightarrow T \rightarrow I \rightarrow N
- Peripheral measurement: φ 7.0mm

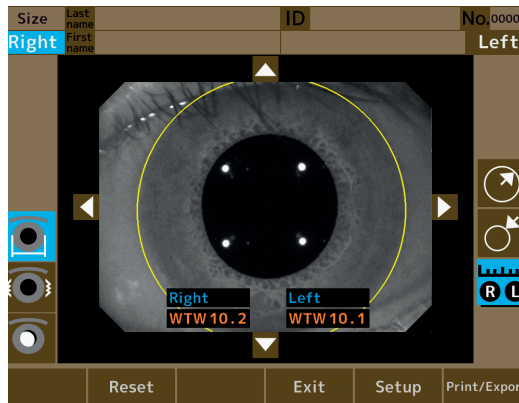
Keratometry

- R1, R2 & Axis values
- Peripheral measurement data



Corneal White to White Diameter (WTW)

WTW measurement is important for the diagnosis of various ocular diseases, cataract and refractive surgery and contact lens fitting. With the RK-F3m this important diameter can be established in seconds.



Retro illumination imaging

Useful for identifying cataracts, vitreous opacity, scars, and other serious eye problems. Automated illumination brightness control for easy operation.

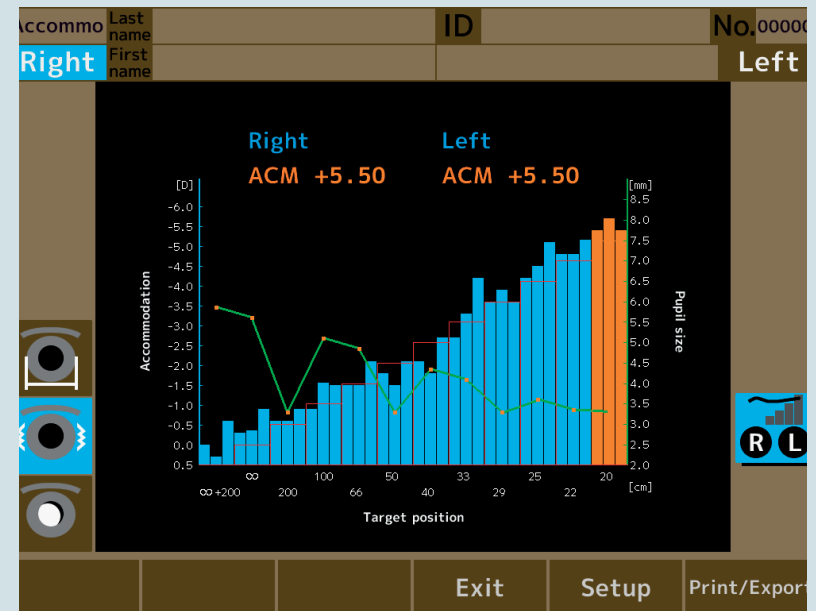


Accommodation

Accommodation problems are frequently age related, but nowadays also children or adults that have been looking at their smart phone for long periods of time can get these eye-focusing problems. By assessing a patients' accommodation status, it creates awareness and can help you to find the best solution to improve their (near) vision.

Measuring accommodation power

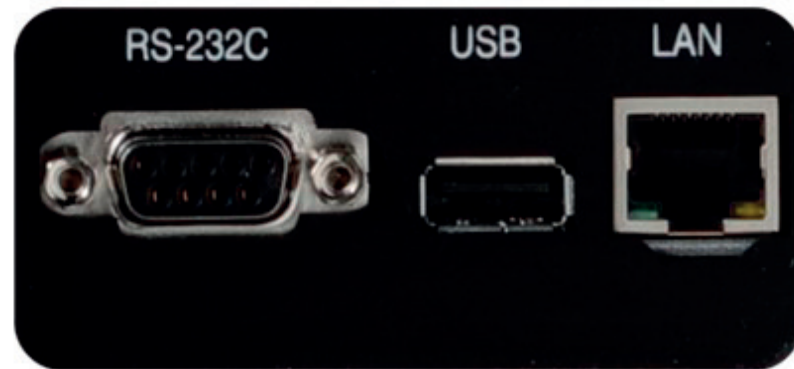
The RK-F3m has a fully automated measurement procedure for measuring the accommodation range (ACM) from infinity to 20 cm: 0 ~ 5 D. The result for the ACM range are shown in a graph, the higher the graph, the stronger the accommodation.



Extensive connectivity

The RK-F3m is equipped with several communication ports: RS-232C, USB and a LAN providing a wide connectivity.

It is even possible to connect a barcode reader, numerical keyboard or, magnetic card reader to input client information.



Measurement Results

To share the measurement results, there are various options:

Display the results on the LCD screen

The large 10.4 inch color touch panel can display all values and graphs in a very clear way. This is very suitable when you would like to review the results together with your client.

Print

Print all data, or main data only (Eco mode). A barcode with the client ID can be included on the print, to facilitate other steps in your workflow.

Reports

Measurement results can be exported as a file (.xml, JOIA format) or as report (JPEG). This is very suitable for sending information to your client database or information system.



Specifications		RK-F3m
Refractometry	Sphere (SPH)	-30 D ~ +22 D (VD:12mm) (0.01 D / 0.12 D / 0.25 D)
	Cylinder (CYL)	0 D ~ ± 10 D (VD:12mm) (0.01 D / 0.12 D / 0.25 D)
	Axis (AX)	0° ~ 180° (1° / 5°)
	Vertex distance	0 mm / 10 mm / 12 mm / 13.5 / 15 mm
	Vertex distance	φ2.0 mm
Keratometry	Radius of curvature	5 ~ 10 mm (0.01 mm)
	Corneal power	33.75 D ~ 67.50 D (0.12 D / 0.25 D)
	Corneal power	0 ~ ± 10 D (0.12 / 0.25 D)
	Axis	0° ~ 180° (1°)
Axis		0 mm ~ 85 mm (1 mm)
Corneal size measurement		2 mm ~ 8.5 mm (0.1 mm)
Corneal diameter measurement		2 mm ~ 14 mm (0.1 mm)
Accommodation measurement		Available
Retro illumination mode		Illuminated Image can be observed and stored
Built-in Printer		Therman line printer with auto cutting
Data output format		LAN / USB 2.0 / serial
Data input format		USB 2.0
Monitor		Panning/tilting 10.4 inch touch panel XGA color LCD
Power saving mode		Available
Power Supply		100-240V 50/60Hz
Power consumption		90VA
Moving distance		Front-Back: ± 16 mm, Left-Right: ±43 mm, Up-Down: ±20 mm
Dimensions		277W x 431L x 482H mm
Weight (main body)		23kg

Canon

<https://eu.medical.canon>

©Canon Medical Systems Corporation 2020. All rights reserved.
Design and specifications are subjected to change without notice.
Model number: RK-F3M
MCAEC0008EUA 2023-08 CMSE/Printed in Europe

Canon Medical Systems Corporation meets internationally recognized standards for Quality Management System ISO 9001, ISO 13485.
Canon Medical Systems Corporation meets the Environmental Management System standard ISO 14001.

Xephilio is a trademark of Canon Inc. Made for Life is a trademark of Canon Medical Systems Corporation.

Made For life