

Canon



RK-F3m

Full Auto
Ref-Keratometer





RK-F3m
Full Auto Ref-Keratometer

An extremely compact, fully automatic Ref-Keratometer which combines high speed, automation and precision for efficient non-invasive ophthalmic diagnosis.



Refractometer



Keratometer

Innovative ergonomic design allows for room placement and operation in multiple positions.



You can perform exams face to face, at 90 degrees, sitting or standing.



Panning/Tilting Color LCD Screen

Allows for versatile positioning in room to perform exams. 40 degree tilt and 90 degree panning side to side capability.

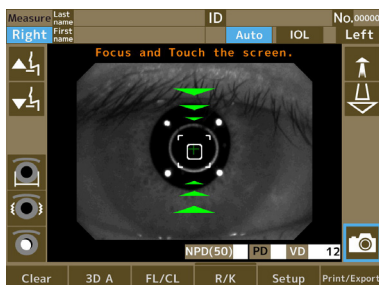
Insightfulness. The intelligent RK-F3m Ref-Keratometer with fully automatic, fast 3D alignment and measurement.

The compact and lightweight RK-F3m with its fully automatic alignment and measurement system, takes ophthalmic examination to a new dimension of simplification, in just one step.

With the press of a button, the RK-F3m carries out sequential alignment and measurement of each eye and provides an automatic print-out of the results. This process significantly reduces overall examination time and increases throughput. Speed, in combination with Canon's latest measurement technology increase the accuracy and reliability of eye examinations. The RK-F3m is easier to use, more efficient and precise.

New design

Compact and lightweight
A great fit in any
examination room



At the press of a button

Simply align on the pupil and the advanced, intelligent automatic operation will take over.

- No time-consuming exact alignment or focusing required
- Simply align the RK-F3m approximately on one of the patient's pupils, press the start button and the automatic 3D measurement takes over
- RK-F3m will align, focus and measure both eyes one-by-one: no additional action required by the operator
- Print-out of the measurement is done automatically

Image. Interpret. Innovate.

Advanced 3D fully automated operation

Just approximately align on the pupil and press the button—the advanced automatic operation will take over and measurements of both eyes will be performed.

Short examination times

The RK-F3m aligns and measures extremely quickly. Even the printout is automatic, minimizing patient discomfort.

Measure pupil diameters as small as 2 mm

For easy measurement of patients with small pupils.

Extensive measurement modes

Refraction and keratometry, corneal periphery measurement, retro-illumination mode, accommodation mode and corneal and pupil diameter measurements.

Accommodation Mode

Useful to measure accommodation dioptric power to check on condition or age related decline of ciliary muscle to move lens when focusing from far to near.

Excellent ergonomics

The tilting and panning 10.4" colour LCD touch screen makes it possible to operate the RK-F3m while standing or sitting.

3D Auto or Manual Mode

Fine manual control can be used when measuring pediatric, cataract or other conditions. Manual mode is useful when measuring young patients and patients with nystagmus.

Extended connectivity

Includes USB, RS-232C and LAN connections for image and data output to practice management systems. Autorefractor/K values can be exported as text or xml file format.

Fast point-and-click alignment

Accuracy and speed are essential for optimized workflow efficiency. Due to its intelligent full 3D alignment functionality, the RK-F3m can start a complete measurement procedure with only a basic alignment on one eye.

With a simple push of the button, the RK-F3m conducts automatic examination of both eyes from alignment to printing.



Touch Screen operation

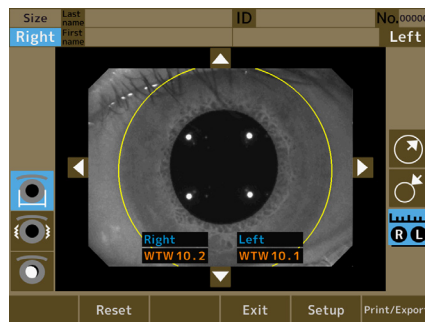
- Accurate, automatic and fast measurement at the push of a button
- Advanced automated alignment for complete examinations



Extensive measurement modes



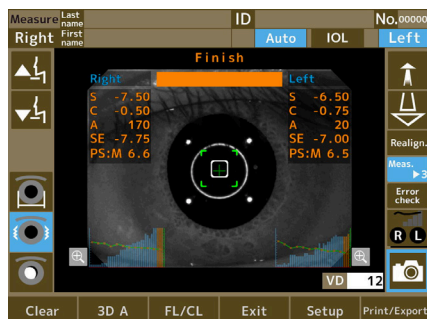
Refraction and central keratometry, with very high reliability and precision.



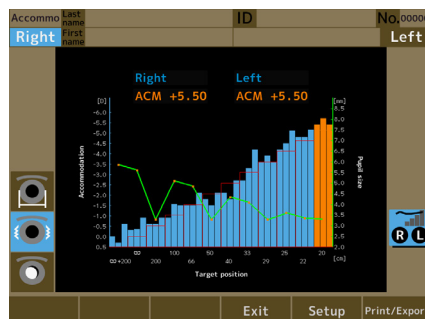
Diameter measurement of the pupil, cornea or contact lens can be performed.



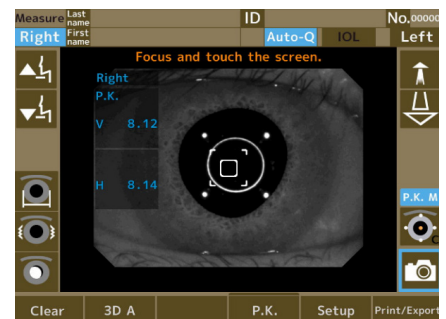
Retro-Illumination mode, useful for identifying cataracts, vitreous opacity, scars, and other serious eye problems.



Summary display of REF/K and Accommodation result values.

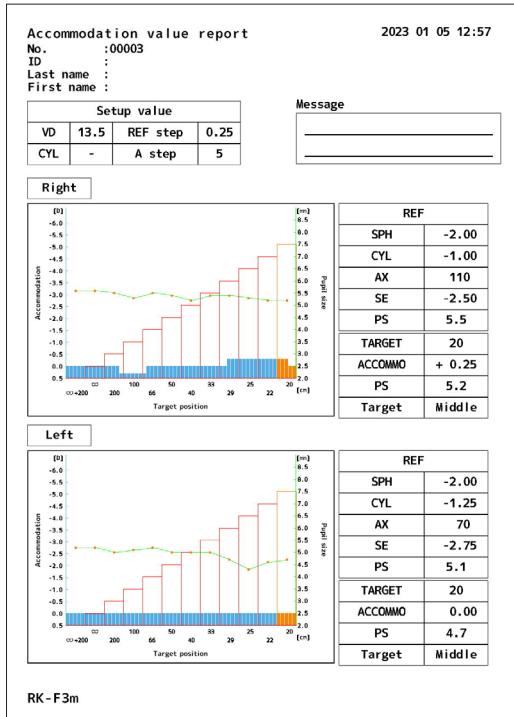


Accommodation display shows changes in spherical equivalent and pupil size as fixation target position moves from far to near during exam.

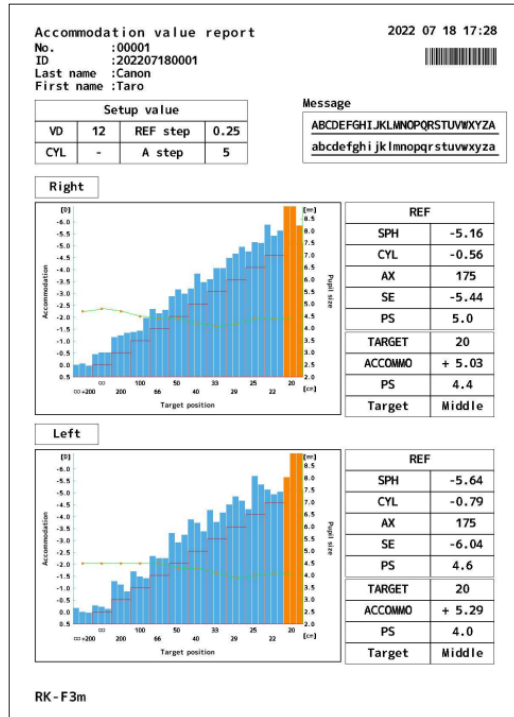


Peripheral K measures HVSTIN areas.

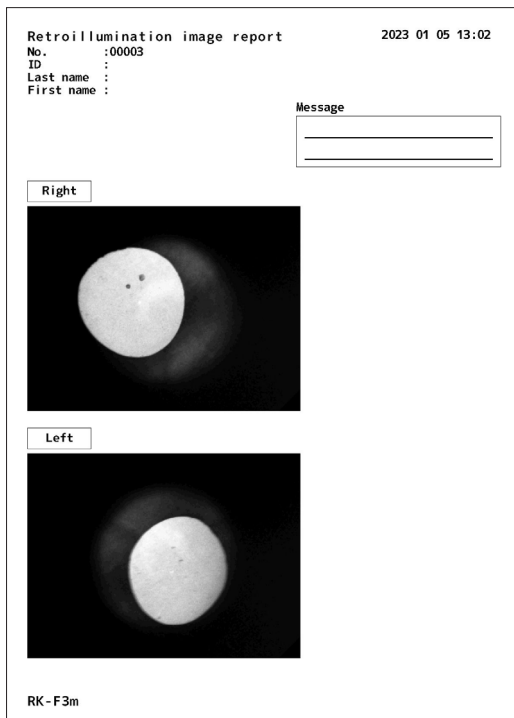
Extensive Report output capability



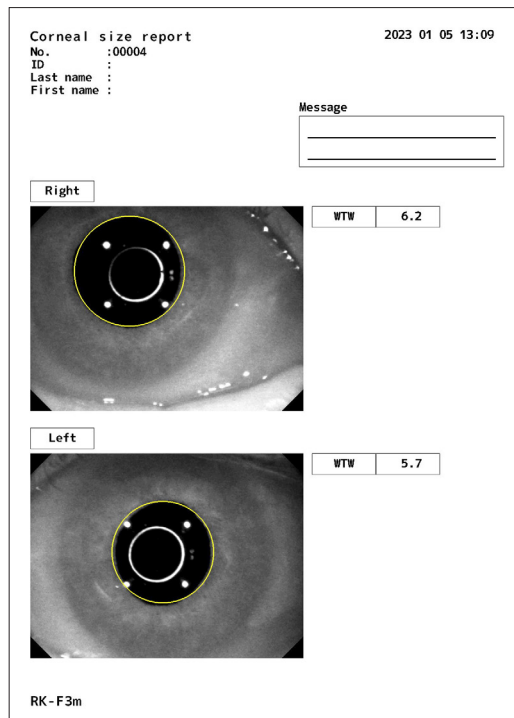
Example of Accommodation report



Example of Accommodation report



Example of Retro illumination report



Example of Corneal Size report

Specifications RK-F3m

Specifications		Refractometry	
Dimensions	277W x 431L x 482H mm	Sphere (SP H)	-30D to +22D (VD=12) (Step: 0.01/0.12/0.25D)
Weight	Appr. 23 kg or 51 lbs.	Cylinder (CYL)	0 to ± 10D (Step: 0.01/0.12/0.25D)
Display	Tilting 10.4" TFT LCD screen	Axis (AX)	1° to 180° (Step: 1 degree)
Printer	Thermal line printer with auto cutter	Pupil distance (PD)	0 to 85 mm (1mm step)
Chinrest	Motorized	Min. pupil size	2.0 mm
Interface	USB 2.0, RS-232C, LAN 10/100Mbs	Keratometry	
Power	100 – 240 V, 50 / 60 Hz	Radius of curvature	5 to 10 mm (Step: 0.01mm)
Power saving mode	YES	Corneal power	33.75 to 67.5 D (cornea refractive index = 1.3375)
Optional accessories	Chin rest paper, printing paper	Axis	1° to 180° (Increments: 1°)
Alignment modes	3D Auto and 3D Manual	Corneal Astigmatism	0 to +/-10D (0.12D/0.25D)
		Corneal diameter	2.0 to 14mm (diagonal: 14mm)
Measurement modes	R/K, REF, KRT, P.K., SPS, IOL, Accommodation, Retro-illumination, WTW		

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<https://us.medical.canon> | 2441 Michelle Drive, Tustin CA 92780 | 800.421.1968

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