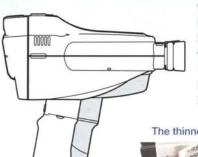






The Retinomax Series, the world's leading

New Much lighter and has a thinner grip



Weighing just under one kilogram, the main body with battery is over 17% lighter in the case of the K-plus 3 and 11% lighter in the case of the Retinomax 3 than conventional Retinomax Series models.

The thinner grip makes it easier to hold







Conventional Retinomax Series



Retinomax 3

Main body (with battery): 969 g Down 11.1% from the conventional model (1,080 g) Retinomax K-plus 3 Main body (with battery): 999 g Down 17.5% from the previous model (1,200 g)

The girth of the grip (upper part): 145 mm Down 11.5% from the previous model (175 mm)

The Retinomax Series 3's center of



The center of gravity is in the grip.

gravity is in the grip, making the Retinomax Series 3 feel much lighter than it actually is.

New Auto pupil measurement, display and printout

The unit measures pupil size automatically, displays the X (horizontal) size on the monitor, and prints out the XY (horizontal and vertical) sizes separately. These results can be used for reference for checking accommodation, mydriasis, ADIE and Horner-associated syndrome, etc. The user can choose to print out either all the data or representative values only. Representative

values only

Pupil size displayed on the

Some data does not sh due to eyelash obstruction or unstable instrument position.

Whole values

* - 2.26 - 1.25 13 9 x 5.7 y 5.5

107. 8. 7 3 48AM 986: 0.016 VO.13.75	107. 8. 7 3:52AM Name: No.026 V0:13.76
FF CYL AX - 3.05 - 2.25 173 - 3.05 - 2.25 174 - 3.25 - 2.25 174 - 3.25 - 2.25 174 - 3.25 - 2.25 174 - 3.25 - 2.25 174 - 3.25 - 2.25 174 - 3.25 - 2.25 174 - 3.25 - 2.25 174 - 3.25 - 2.25 174 - 3.25 - 2.25 174 - 3.25 - 2.25 174 - 3.25 - 2.25 174 - 3.25 - 2.25 174 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175 - 3.25 - 3.25 175	-BEF- IRI SPH CYL AX - 2.75 - 2.00 174 - 2.75 - 2.00 175 - 2.75 - 2.00 175 - 2.75 - 2.00 175 - 2.75 - 2.00 175 - 2.75 - 2.20 175 - 2.75 - 2.22 175 - 2.75 - 2.22 175 - 2.75 - 2.25 175 - 2.55 - 2.00 175 - 2.55 - 2.50 175 - 2.55 -
- 2.50 - 1.25 12 - 2.50 - 1.25 14 - 2.50 - 1.25 15 • - 2.50 - 1.25 15 • 2.50 - 1.25 14 8 x 5.7 y 5.4 8	* - 2.75 - 2.00 173 9 (L] SPH EYL AX - 2.25 - 1.50 13 - 2.25 - 1.50 14 - 2.25 - 1.25 14 - 2.22 5 - 6.27 5 12 - 2.00 - 1.25 12 - 2.00 - 1.25 12 - 2.00 - 1.25 13

Auto Quick measurement

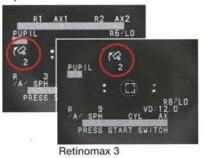
If no measurement is made within six seconds, the unit automatically enters Quick mode. Measurement is then taken in 0.07 second. In Auto Quick mode, "AQ" appears on printouts.

New)

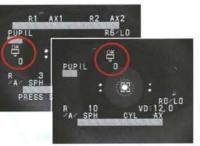
Parallel sensor detects inclination of main body and displays value

Unlike conventional methods, in which operators guess levelness, levelness can be detected digitally with the use of the unit's parallel sensor. Levelness is displayed on the monitor in every 2° pitch up to ±12°, and every 3° pitch up to ±45°. (This is only displayed in the standing position. No levelness display appears when the patient is lying down.)

K-plus 3











handheld Ref and Refract Keratometer, now boasts



New Achieving long and continuous use

With the adoption of a lithium ion battery, continuous operational time has been extended to approximately 80 minutes. The station has an AC adapter, allowing it to be connected to the main body with a DC cord (optional) to enable extended continuous operation. This facilitates screening, as well as use in an operating room.

DC cord: 2.9 m (length), 4 mm (diameter)



Optional DC cord connects main body and station

New Fixation intensity is automatically lowered for pupils less than 3 mm in size

The minimum pupil measurement size in Auto Quick mode is 2.3 mm. If a pupil is less than 3.0 mm, the fixation target intensity is automatically reduced by approximately 45% to avoid pupil contraction. The intensity can also be reduced with the fixation intensity key.

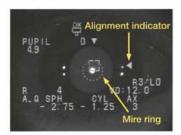


The diopter adjustment range has been extended to ±8D.



New Alignment indicator display

Indicators showing alignment directions are displayed on the monitor to facilitate alignment. The Mire ring makes focusing much easier.



New Two memory functions

- Data from the last measurement is automatically saved after the Retinomax 3 is turned off. The last patient data can be recalled by pressing the PRINT key. The data can be transferred wirelessly to a printer.
- Press the MEMORY key for more than one second to enter Memory Set. Here you can save the data of up to 50 patients (100 eyes) in 10, 20, 30- and 40-patient steps. Data can also be printed out with Memory Set. For measurements, first press the MEMORY key to enter Memory mode. After each measurement, press PRINT to save individual patient data. This avoids the possibility of single-eye readings being mixed up. In normal readings, numbers are assigned in series. However, in Memory mode, saved data is numbered from "1."





Up to 50 sets of patient data can be saved or printed out. To delete saved data, select the DELETE ALL on the Memory Set screen.

To print out multiple sets of data, use the optional printer cable (main body to printer) to transfer data to the printer.



s greater mobility, stability and accuracy.



Measurement is made five times

If the equivalent spherical difference is less than ±0.5D

If the equivalent spherical difference is over ±0.75D



Measurement is made three more times

If the equivalent spherical difference is less than ±0.5D

If the equivalent spherical difference is still over ±0.75D, continue

measurement





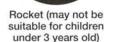
Quick startup and fast printout

The main body takes only four seconds to start after power is turned on (some 60% faster than conventional models). Printout time has been reduced by 45%.

Three fixation targets are available.

Specify when ordering.







Bear (primarily for children)



New Retinomax 3 also has retro illumination mode

The Retinomax 3 includes the retro illumination mode for observation of the inside of the pupil. Accordingly, the only major difference between the Retinomax 3 and the Retinomax K-plus 3 is the adoption of kerato functions (including peripheral kerato readings).

In retro illumination mode







Startup screen

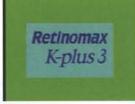


Measurement screen



Measurement completed screen

Retinomax K-plus 3



Startup screen

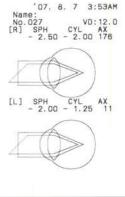


Measurement screen



Measurement completed screen

Ma	me:	7.					
				7	in.	12	. 75
NO	. 027			·	U:	13	. /5
-RE							
[R]	SP - 2 - 2 - 2 - 2	H .50 .50 .50	- - - - -	YL 2.0 2.0 2.0 2.0	00	AX 17 17 17 17	6 3 4 6 8
*	- 2	. 50 x	5.	2.0	y	17 5.	6 10
[L]	SP - 2 - 2 - 2 - 2	H . 00 . 00 . 00	- - - -	1. 2 1. 2 1. 2 1. 2	500550	1 1	2 8 5 9
*	- 2	. 00 x	- 5.	1.2	25 y	5.	1 10
-KE	R-						
[R]	F	1	F	2	A)	1	AX2
							89
	R1 R2 AV CYL	7. 7. 7.	94 46 70	42	D 2. 5 3. 2 3. 8	50 25 37 75	deg 179 89 179
[L]	F	1	F	12	A)	(1	AX2
	* 7.						
	R1 R2 AV CYL	7. 7. 7.	83 49 66	45	D 5.0 1.8	12	deg 1 91



Pupil size: Ref data:

Representative Kerato data:

values

Eye diagram: ON

Order can be changed to either Right Ref & Kerato or Left Ref & Kerato

Stylish, streamlined designs and bright colors



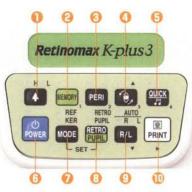


Operation panel (main body)

- Fixation intensity key
- **OMEMORY** key
- OAxis rotation key
- **OPOWER** key
- @QUICK/Melody key
- @RETRO mode/Pupil size key
- @R/L(right/left) select key
- **OPRINT** key
- **OSTART** switch

Handheld Autorefract Keratometer Retinomax K-plus 3





Operation panel (main body)

- OFixation intensity key
- **@MEMORY** key
- OPERI key (cornea peripheral measurement)
- OAxis rotation key
- @QUICK/Melody key
- **OPOWER** key
- **OMODE** key
- @RETRO mode/Pupil size key
- OR/L(right/left) select key
- **®PRINT** key
- **OSTART** switch



Outstanding functionality in keeping with past Retinomax Series models

 The angle of the viewfinder can be adjusted within a range of 0° to 135°, making measurement easy regardless of patient's position or posture.





 A cylinder axis correction function with a 45° angle facilitates the use of the Retinomax on patients lying down.



- The 50-mm working distance is the same as that of the table-top model.
- The melody function provides a more relaxed atmosphere for children.



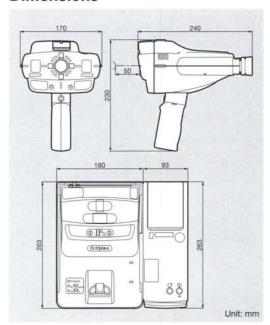




Optional accessories



Dimensions



Specifications

	Ha	and Held Ref Retinomax 3		
	B F A B	Refractometry		
Measurement	Spherical (S + C)	-18.00D to +23.00D (in 0.25D increment)		
range	Cylinder	0 to +12D or 0 to -12D (in 0.25D increment)		
	Cylinder axis	1 to 180" (in 1" increment)		
Minimum pupi	I size	ø2.3 mm (Auto Quick)		
Vertex distance	e	0, 12 mm adjustable		
Measurement	time	0.14 sec. per indication (continuous)		
Pupil size mea	surement time	+0.27 sec./1 time		
Measurement	mode	Auto/Continuous/Auto Quick/Quick		
IOL wearing ey	/e	Automatic support		
Fixation target		Picture target		
Battery life		Approx. 80 minutes (fully charged)		
Eyepiece	The state of the s	4.05 x 3.02 mm LCD		
Working dista	nce	50 mm		
Reaching dista	ance	278 mm		
External output		Infrared (Printer, Remote Vision)		
		RS-232C (Main body-PC, Printer-PC, Main body-Monitor		
Dimensions (n	nain body only)	170(W) x 230(H) x 240(D) mm		
Weight		Approx. 969 g (with battery) (Battery: Approx. 100 g)		

Station		
Dimensions	185(W) x 102(H) x 263(D) mm	
Weight	Approx. 1.36 kg	
Power consumption	100 VA	

32 11 32 11	Printer		
Interface	RS-232C		
Dimensions	93(W) x 77(H) x 263(D) mm		
Weight	Approx. 595 g (without battery)		

	Handheld Autorefr	act Keratometer Retinomax K-plus 3		
		Refractometry		
Measurement range	Spherical (S + C)	-18.00D to +23.00D (in 0.25D increment)		
	Cylinder	0 to +12D or 0 to -12D (in 0.25D increment)		
	Cylinder axis	1 to 180 ° (in 1° increment)		
Minimum pupi	I size	ø2.3 mm (Auto Quick)		
Vertex distanc	0	0, 12 mm adjustable		
	Measure	ement of radius of curvature		
Measurement range	Radius of curvature	5.00 to 11.00 mm (in 0.01 mm increment)		
	Corneal astigmatism	In 0.25D increment		
	Cylinder axis	1 to 180° (in 1° increment)		
	Center	ø3.2 mm (R8 mm)		
	Peripheral	ø6.8 mm (R8 mm) (25" vertical/horizontal)		
1000	Current Marie			
Measurement time	Kerato and Refract (continuous)	0.34 sec. per indication (continuous)		
	Kerato alone	0.2 sec. per indication (continuous)		
	Refract alone	0.14 sec. per indication (continuous), 0.07 sec. (Quick)		
Pupil size mea	surement time	+0.27 sec./1 time		
Measurement mode		Auto/Continuous/Auto Quick/Quick		
IOL wearing ey	re	Automatic support		
Fixation target		Picture target		
Battery life		Approx. 80 minutes (fully charged, at 25°C)		
Eyepiece diopter adjustable range		±8D		
Working distance		50 mm		
Reaching distance		278 mm		
External output		Infrared (Printer, Remote Vision)		
		RS-232C (Main body-PC, Printer-PC, Main body-Monitor)		
Dimensions (n	nain body only)	170(W) x 230(H) x 240(D) mm		
Weight		Approx. 999 g (with battery) (Battery alone: Approx. 100 g)		

Retinomax Series 3 meets CE (EMC, GM), UL and FDA standards



WARNING:

To ensure correct usage, read all manuals carefully before using equipment

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. © 2007/2008 RIGHT MFG. CO., LTD. The information in this brochure is correct as of June 2008.

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