



RETINOMAX 3 HAND-HELD AUTOREFRACTOR

Model 3



RIGHTmed

The Retinomax Series, the World's Leading Handheld Refractor and Keratometer

RETINOMAX 3

The Retinomax 3 Series boasts all the same benefits as the 2 Series, plus an impressive collection of new features.

Lighter With Thinner Grip

Weighing just under one kilogram, the main body with battery is over 17% lighter for the K-plus 3 and 11% lighter for the Retinomax 3 than the conventional Retinomax Series models. The Retinomax Series 3's center of gravity is in the grip, making the Series 3 feel much more lighter and balanced.

NEW Auto Quick Measurement

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

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. Results can be used in checking accommodation, mydriasis, ADIE and Horner-associated syndromes.

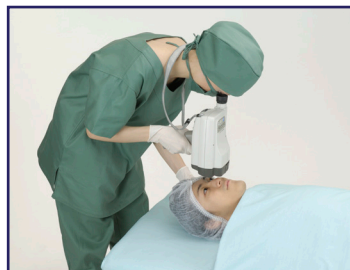
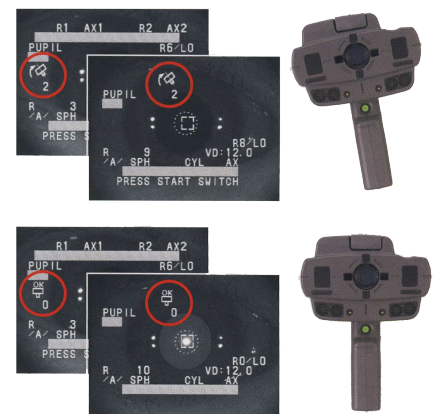
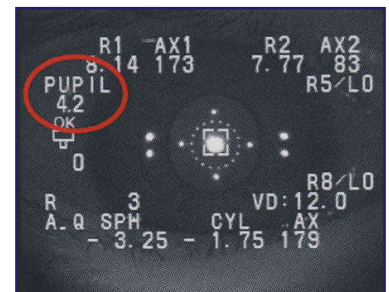
Parallel Sensor Detects

Inclination Of Main Body And Displays Value

Levelness is detected digitally with the use of the unit's parallel sensor. It is displayed on the monitor in every 2° pitch up to $\pm 12^\circ$, and every 3° pitch up to $\pm 45^\circ$.

NEW Long Or 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.



RETINOMAX 3

NEW Fixation Intensity Adjustment - 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 constriction. The intensity can also be reduced with the fixation intensity key.

NEW Extended Diopter Adjustment Range

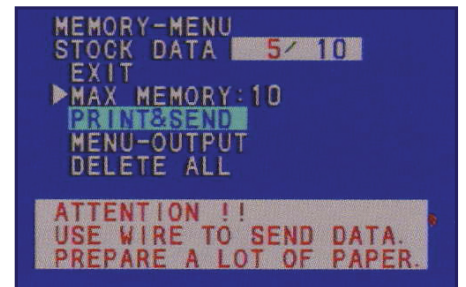
The diopter adjustment range has been extended to -18 -- +23.

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.

The Retinomax 3 Also Has Retro-illumination Mode

The Retinomax 3 includes the retro illumination mode for observation of the media opacities.



RETINOMAX K-PLUS 3 ADDITIONAL FEATURES

Fast Refraction/Keratometry Readings

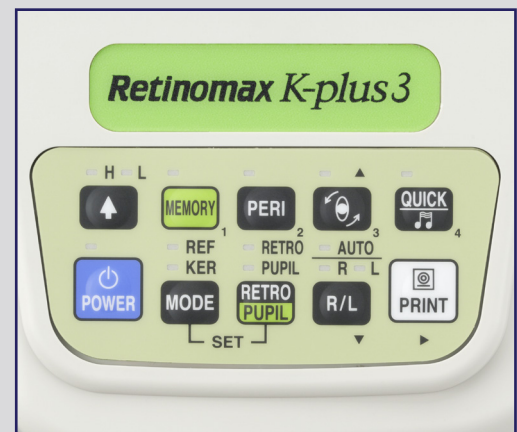
In the Refraction/Keratometry Mode, readings up until both data are indicated require only 0.25 seconds -- 0.15 seconds for Keratometry and 0.12 for Refractions.

Peripheral Corneal Curvature Readings

Tangential peripheral readings are possible, as is E-value printing.

2.5mm Pupil Size and Selectable Fixation Intensity

When the eye is exposed to bright light, the pupil contracts, often making measurements impossible. Within the K-plus 2, the minimum required pupil diameter is only 2.5 mm plus the intensity of the fixation target is variable.



RETINOMAX 3 AND PLUS HAND-HELD AUTOREFRACTOR

| Hand Held Auto-Refractor Retinomax 3 | |
|--------------------------------------|---|
| 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) Axis: 1° to 180° (in 1° increment) |
| Minimum Pupil Size | ø2.3 mm (Auto Quick) |
| Vertex Distance | 0, 12 mm adjustable |
| General | |
| Measurement Time | 0.14 sec. per indication (continuous) |
| Pupil Size Measurement Time: | +0.27 sec./1 time |
| Measurement Mode | Auto/Continuous/Auto Quick/Quick |
| IOL Wearing Eye | Automatic support |
| Fixation Target | Picture target |
| Battery Life | Approx. 80 minutes (fully charged) |
| Eyepiece | 4.05 x 3.02 mm LCD |
| 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 (main body only) | 170(W) x 230(H) x 240(D) mm |
| Weight | Approx. 969 g (with battery) (Battery: Approx. 100 g) |

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

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

| Hand Held Auto-Refract-Keratometer Retinomax K-Plus 3 | |
|---|---|
| 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) Axis: 1° to 180° (in 1° increment) |
| Minimum Pupil Size | ø2.3 mm (Auto Quick) |
| Vertex Distance | 0, 12 mm adjustable |
| Measurement Range 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) |
| General | |
| Measurement Time | Kerato and Refract: 0.34 sec. per indication Kerato alone: 0.2 sec. per indication (continuous) Refract alone: 0.14 sec. per indication (continuous), 0.07 sec. (Quick) |
| Pupil Size Measurement Time: | +0.27 sec./1 time |
| Measurement Mode | Auto/Continuous/Auto Quick/Quick |
| IOL Wearing Eye | 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 (main body only) | 170(W) x 230(H) x 240(D) mm |
| Weight | 999 g (with battery) (Battery alone: Approx. 100 g) |

Distributed by:

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