

REF/KERATO

AutoFocus AutoTrack Ref/Keratometer

GR-3500KA
GR-3300K

Option

Overall Dimension

- Specifications and design are subject to change without prior notice for improvement.
- The screen is composed photograph.
- The color of instrument on the catalogue and the real product might be different.
- We judge that the LCD Monitor is qualified if the total "lit pixel" and/or "missing pixel" is less than five (excluding non-sharp one and less than half one).
- Production and Distribution Registration Number GR-3500KA:37B2X10001000037
GR-3300K :37B2X10001000039



● Agency



3D Auto Measurement

With Auto Focus + Auto Track + Auto Start, the measurement is taken at the most proper position automatically without operating the joystick precisely nor pushing the Start Switch.
(GR-3500KA Only)



Auto Start

When the position and the focus are aligned, the measurement is taken automatically for the fixed times. Then, once both eyes are measured, print out will come out automatically.

Tilting Large LCD

Depending on the position of operator, the angle of LCD can be changed freely. With this Large Color LCD, the measurement can be done easily since the measurement information is shown in color and by icon.

Precise Measurement

With the newly designed optical system, the measurement accuracy has been improved.

User Friendly Fast Printer (with Auto Cutter)

For the replacement of paper, just put it in and close the cover. It is very simple and easy because there is no need to make any adjustment.



Simple Lock ※①

Just turn the knob to stop the main unit temporary. It can be put on the slinding table safely.



Electric Chin Rest ※②

Chin Rest moves electrically with the switch in front of operator.

Pupil Diameter Measurement

Simultaneously with refractive value, the pupil diameter at 0.1mm step (minimum 2mm) is shown on the LCD and can be printed out. It can measure the pupil diameter necessary for Multi Focus Contact Lens, IOL, and so on.

Advanced IOL Mode

After redesigning the whole system and making the improvement, even the cataract and the IOL implanted subject can be measured much more than before.

Data Output

With RS232C and USB Interface, the measurement data can be sent to the external devices. With the use of Data Collection Software (option), it is sent as spreadsheet data.

PD Measurement

Measures the Far PD and the Near PD is calculated accordingly (select working distance from 30, 35, 40, 45cm). The result can be printed out as NPD as well.

Small Pupil Measurement

Compare to the previous model, it measures smaller pupil of 2.2mm diameter to allow the measurement of elderly and the person with long eyebrows easier.

Right eye data

Date & time

Message Area

No. 00001

NAME 2009 05 28 13:10

VD=12

<R> SPH CYL AX PUP.

-4.75 -0.25 90 5.0

-4.75 -0.25 90 5.0

-4.75 -0.25 90 5.0

-4.75 -0.25 90

<R> mm D AX

R1 7.59 44.50 120

R2 7.57 44.50 30

AVE 7.58 44.50

CYL 0.00

RESI AST -0.25 90

S 7.84 T 7.66

V 7.51 H 7.55

I 7.84 N 7.71

e (VER) 0.554

e (HOR) 0.396

e (AVE) 0.475

<L> SPH CYL AX PUP.

-4.50 -0.75 90 5.0

-4.50 -0.75 90 5.0

-4.50 -0.75 89 5.0

-4.50 -0.75 90

<L> mm D AX

R1 7.59 44.50

R2 7.57 44.50

AVE 7.58 44.50

Left eye data

Average

Eccentricity

Horizontal

Eccentricity

Vertical

Eccentricity

Representative value

(Displayed when the measurement is taken 3 times)

Residual astigmatism

Refractive data

Corneal data

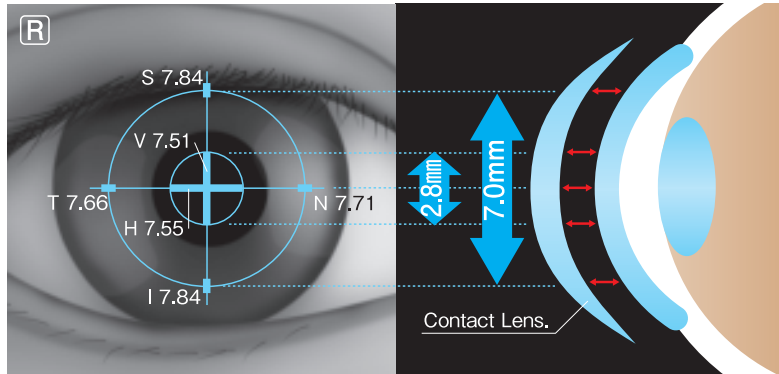
Corneal Peripheral Data

Refractive data

Corneal data

Corneal Peripheral Measurement

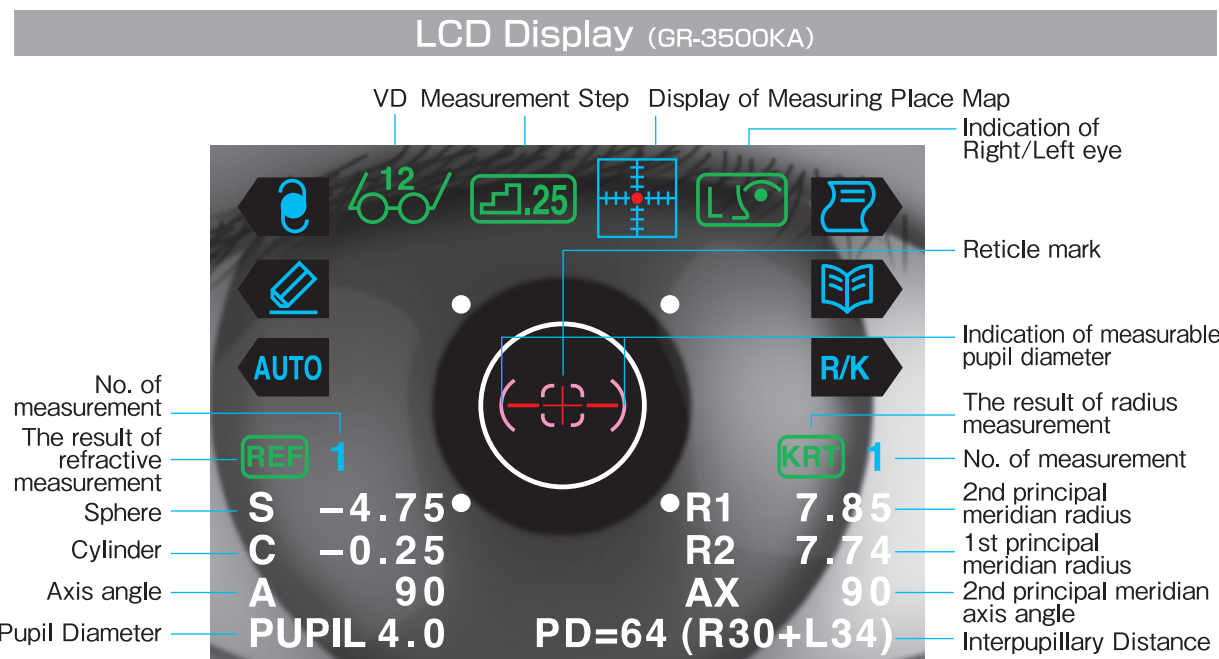
With the measurement of Corneal Peripheral, the base curve of cotnact lens can be chosen more precisely and the fitting of it become smoothly.



S(Superior) T(Temporal)
V(Vertical) H(Horizontal)
I(Inferior) N(Nasal)

Contact Lens Selection

With the addition of corneal peripheral, residual astigmatism, and pupil diameter data to the general refraction and corneal data, the accurate selection even for the progressive and the large size contact lens now become much easier.



Tonic Accommodation Measurement

The fatigueness during the near distance work and its recovery can be judged. At the same time, reliability of far point measurement can be confirmed.

Traditionally, it must be measured in a special room by showing an "EMPTY FIELD".

NAME 2009 05 28 13:10		Ref data	
VD=12		Tonic accommodation data	
Right eye data	<R>	SE	-5.43
		TA	-5.48
		TA-SE	-0.05
Left eye data	<L>	SE	-5.43
		TA	-5.48
		TA-SE	-0.05
Grand Seiko.com GR-3500KA			
		Difference between Ref data and Tonic accommodation data	