REF/KERATO

AutoFocus AutoTrack Ref/Keratometer

AUTO REF/KERATOMETER

GR-3500KA
GR-3300K

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.

Auto Start

Automatically starts the measurement once the eye position and the focus are aligned.

Tilting Large LCD

Operator can be at any position and the large color LCD make the measurement easy.

Precise Measurement

Improved measurement accuracy with newly designed optical system.

User Friendly Printer with Auto Cutter

Just throw a paper roll into the printer box without any adjustment and the Auto Cutter makes easy to tear off the printout.

Simple Lock

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

Electric Chin Rest

The chin rest can be adjusted to the proper level from the operator side with the switch.

Pupil Diameter Measurement

Useful feature for the subject with Multi Focus Contact Lens and IOL. The pupil diameter at 0.1mm step (minimum 2mm) is measured simultaneously with refractive value.

Advanced IOL Mode

Improved measurement accuracy of the subject with the cataract and/or the IOL implanted.

Data Output

The measurement data can be transferred to the external devices by RS232C and USB interface. The data can be retrieved into the spread sheet using Data Collection Software (Optional).

PD Measurement

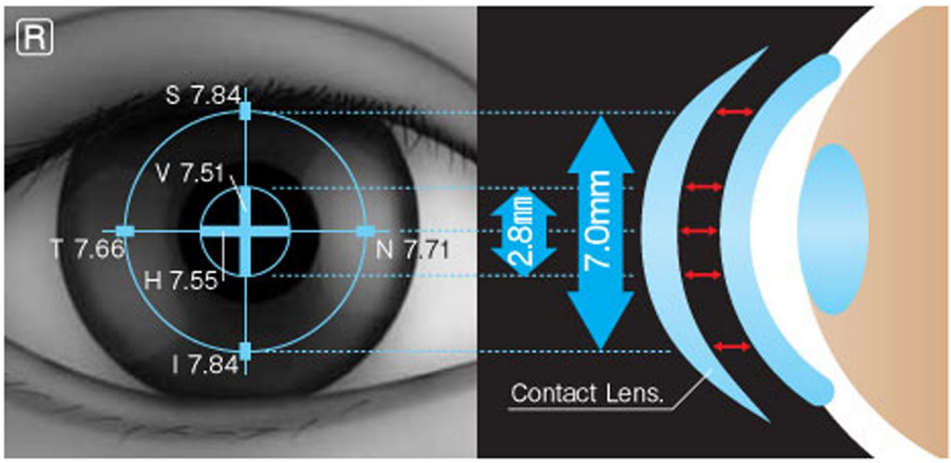
In addition to the measurement of Far PD, Near PD is calculated based on it at the selected distance.

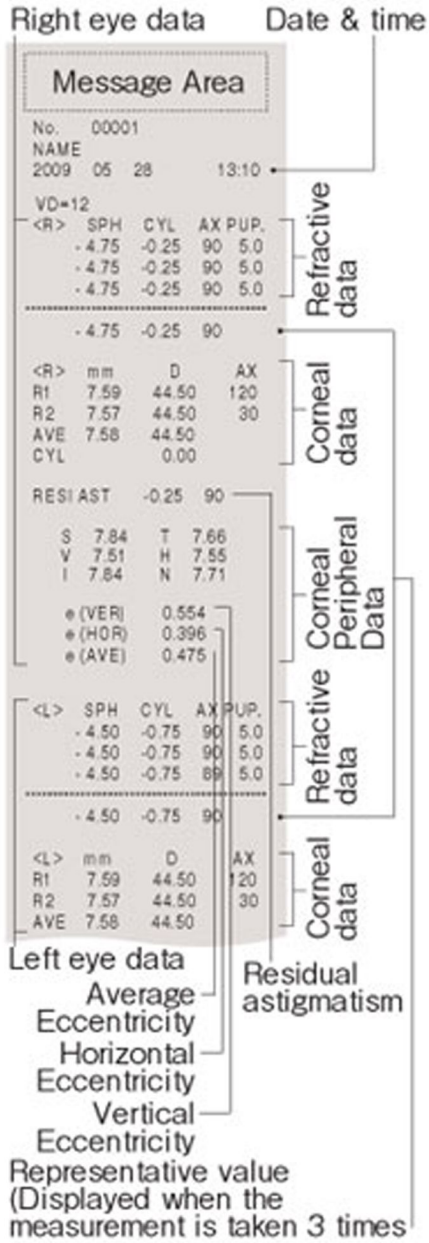
Small Pupil Measurement

Improved system allows to measure smaller pupil diameter as small as 2.2mm and the subject with long eyebrows and smaller eyes can be measured more easily.

Corneal Peripheral Measurement

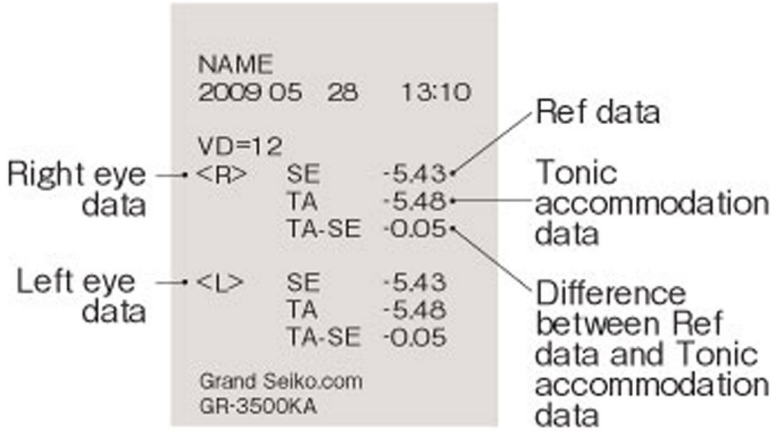
Measuring corneal peripheral is useful to determine the base curve for fitting contact lens.



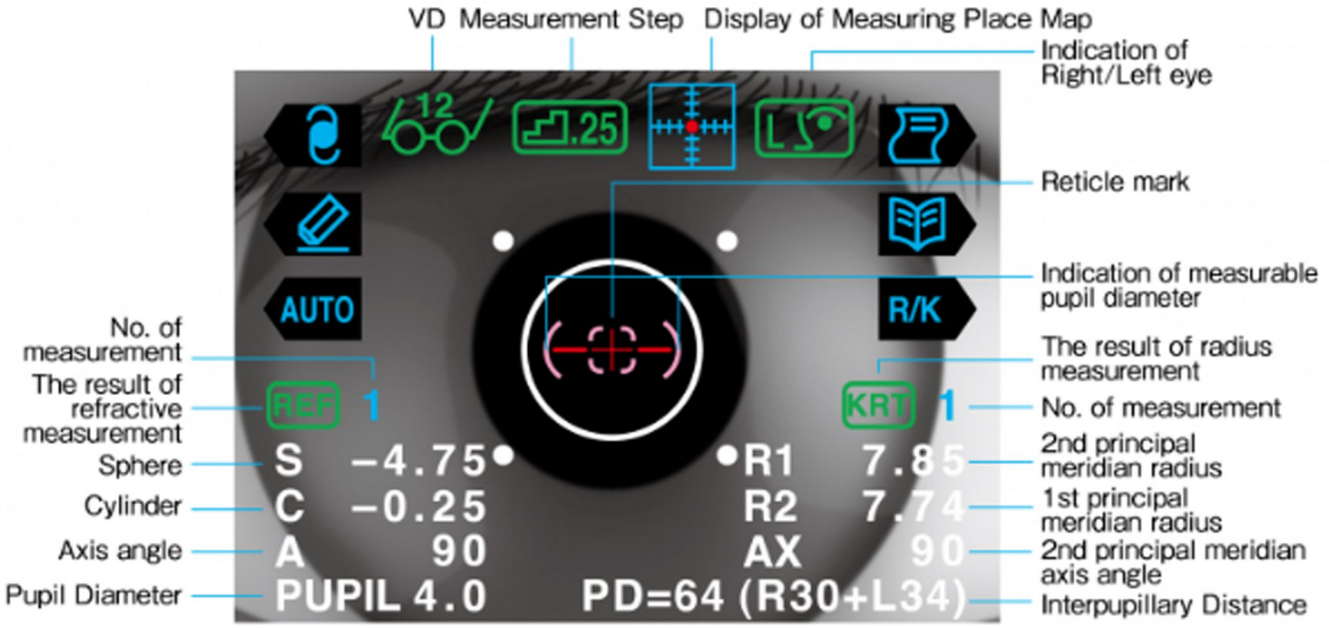


Tonic Accommodation Measurement

The level of fatigue and its recovery can be measured. This feature is able to prove reliability of far point measurement. Measuring tonic accommodation traditionally required a special settings such as showing empty field to the subject in the special room.



LCD Display



Specification

Model	GR-3500KA	GR-3300K
Refraction Measurement	Sphere −22～+30D (VD=0mm)	
	−30～+22D (VD=12mm) (0.01/0.12/0.25DStep)	
	Cylinder 0～±10D (0.01/0.12/0.25DStep)	
	Axis angle 1～180° (1°Step)	
Measurement of Corneal Radius	Corneal radius 5.0～10.0mm (0.01mmStep)	
	Refractive power 33.75～67.5D	
	(Corneal Refractive Index n=1.3375)	
	(0.01/0.12/0.25DStep)	
	Cylindrical power 0～±10D	
	Axis angle 1～180° (1°Step)	
Corneal Measured Area	ϕ2.8mm(Ring Measurement/at 8.0mm of Corneal Radius)	
	ϕ7.0mm(4 Point Peripheral Measurement/at 8.0mm of Corneal Radius)	
Pupil Diameter Measurement	ϕ2～ϕ8mm (0.1mm step)	
Vertex Distance	0, 10, 12, 13.5, 15mm	
Minimum Pupil Diameter	ϕ2.2mm	
Pupillary Distance	Measurement Range 0～85mm (1mmStep)	
Auto Start	○	
Auto Focus/Auto Track	○	×
Printer	Thermal printer with Automatic Cutter (Width 57mm)	
Internal Monitor	5.7 inch LCD Display (Color)	
Movable Distance	Back/Force ±17mm Right/Left ±43mm Up/Down ±17mm	
Movable Distance of Chinrest	±30mm	
Overall Dimension	(W) 260mm×(D) 465mm×(H) 453mm	
Weight	About 20kg	About 17kg
Output	RS-232C,USB2.0 Interface	
Rated Voltage	100～240V 50／60Hz	
Consumption	90VA	80VA
Power Save	OFF, 3, 5, 10 min. (Selectable)	