

The Grand Comeback...



Auto Refractometer
GR 2100



Auto Ref. / Kerato.
GR 3100K

The Ophthalmologists' first choice



OPTICS INDIA
EQUIPMENTS PVT. LTD.

GR-2100 / GR-3100K

Grand Seiko.com Japan is undoubtedly a leader in innovative technology and they have always been trend setters for the optical and ophthalmic trade the world over.

GR-2100 - World's first Auto Refractometer with Color Display and some unique functions like Tonic Accommodation, Focus Guiding System, Relax function etc.

GR-3100K - In addition to all the features of GR-2100, it gives complete Corneal Peripheral Measurement (Auto Keratometry) from six co-ordinates.

Wide Measurement Range

Sphere Measurement -25D-+25D and Cylinder 0-±10D.

Function of Corneal Peripheral Measurement (GR 3100K)

With a Corneal Peripheral measurement from 6 co-ordinates, base curve of contact lens can be chosen more precisely. Additionally, it would particularly help the fitting of large size contact lens.

Measurement of Tonic Accommodation

GR-2100 & GR-3100K are the first Auto Refractometers in the world with the function to measure Tonic Accommodation.

Relax Function

Reduces the margin of measurement error which occurs due to eye strain.

Color LCD Display

By using the color display, it becomes easier to see and confirm the alignment. Furthermore, use of icons instead of character makes it easier to operate and recognize.

Focus Guiding System (GR-2100)

You can bring to the focus easily while you are looking at the arrow. When the arrow is gone, it is focused perfectly.

Auto Start / Printer with Automatic Cutter

When it is focused, the instrument records measurements automatically without pressing any switch. Furthermore, once both eyes are measured, the readings are printed and dispensed automatically.

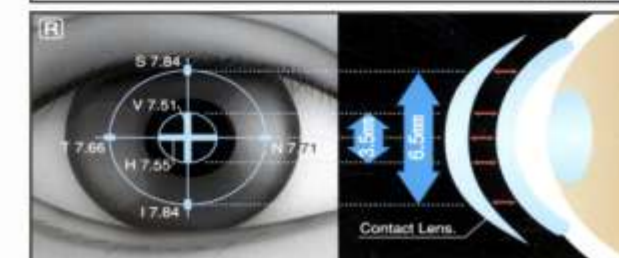
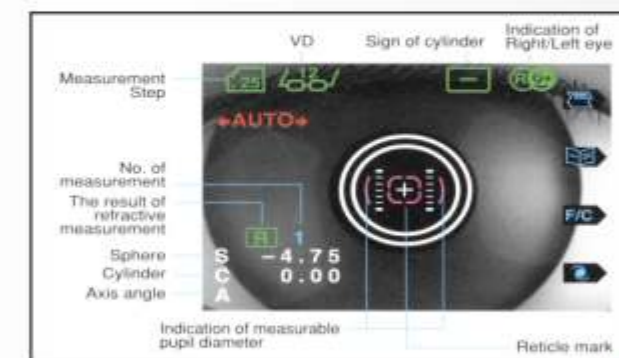
Data Output

Video Output / It allows you to show the same image as the internal monitor to external monitor (NTSC System)

RS-232C Interface allows you to send data to a remote system e.g. a computer

Measurement

- * Easy PD Measurement for both near and distance vision.
- * Special non-interrupted IOL Mode.
- * Measurement of small Pupil Diameter upto 2.3 mm



Corneal Peripheral Measurement from six co-ordinates.

TECHNICAL SPECIFICATIONS*

Refraction Measurement	Sphere -25 ~+25D (0.01/0.12/0.25D step) Cylinder 0 ~ ± 10D (0.01/0.12/0.25D step) Axis Angle 0 to 180° (1° Step)
Measurement of Corneal Radius (GR 3100K)	Corneal Radius 5.0-10.0mm (0.01 mm Step) Refractive Power 33.75-67.5D (0.01/0.12/0.25D step) Cylinder Power 0 ~ ± 9D Axis Angle 0 to 180° (1° Step)
Corneal Measurement Range (GR 3100K)	Center Ø3.5mm Peripheral Ø6.5mm
Minimum Pupil Dia.	Ø2.3 mm
Vertex Distance	0, 10, 12, 13.5, 15mm
PD	Measurement Range 85mm (1mm Step)
Printer	Thermal Printer with automatic cutter (width 57 mm)
Internal Monitor	5.6" Color LCD Display
Movable Distance	Back/Forth ± 17mm Right/Left ± 43mm Up/Down ± 17mm Chin Rest ± 30mm
Dimensions	(W) 250mm x (D) 418mm x (H) 425mm
Weight	About 15 Kgs
Output	RS 232C Interface Video Output (NTSC)
Rated Voltage	100 - 240 V
Consumption	50 / 60 Hz
Power Save	80 VA OFF, 3, 5, 10 minutes (Selectable)

* Technical Specification subject to change without prior notice.



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