

Easier Measurement With Color LCD!

AUTO REFRACTOMETER
GR-2100



Grand Seiko Co.,Ltd.

AUTO REFRACTOMETER GR-2100

Color LCD Display

By using the color display, it becomes easier to see and confirm the alignment. Furthermore, since the Icon is used instead of the character, it becomes easier to operate even if the person has never used the instrument.

Focus Guiding System

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

When it is focused, the instrument starts the measurement automatically without pressing any switch. Then, after the one eye is measured for the fixed times, it indicates to go to the other eye with sound and arrow. Furthermore, once both eyes are measured, it starts printing automatically.

Measurement of Tonic Accommodation

GR-2100 is the first Auto Refractor in the world with the function to measure the Tonic Accommodation. Traditionally, it must be measured in a special room by showing an "EMPTY FIELD". But, with this function, it can be done very easily Now.

Relax Function

By using the Relax Function, it can reduce the margin of measurement error, which occurs with strain.

Data Output

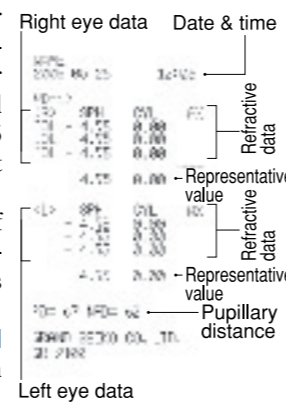
Video Output / NTSC System.
RS-232C Interface / It allows you to send the measurement data to the external machines, like computer. By using The Data Collection Software (Option), the data can be sent to the spreadsheet automatically.

Measurement

PD / It measures the PD for Far Distance, automatically. Additionally, it calculates the PD for Near Distance, automatically as well (Select from 30, 35, 40, and 45 cm). The result can be printed out as NPD.

IOL Mode / With the addition of IOL Mode, the measurement under difficult conditions becomes much easier.

Measurement of Small Pupil Diameter / As small as 2.3 mm Pupil Diameter can be measured.



- Specifications and design are subject to change without prior notice for improvement.
- The part of screen is composed photograph.
- The color of instrument on the catalogue and the real product might be different.
- Medical equipment manufacturer license No.37BZ0026

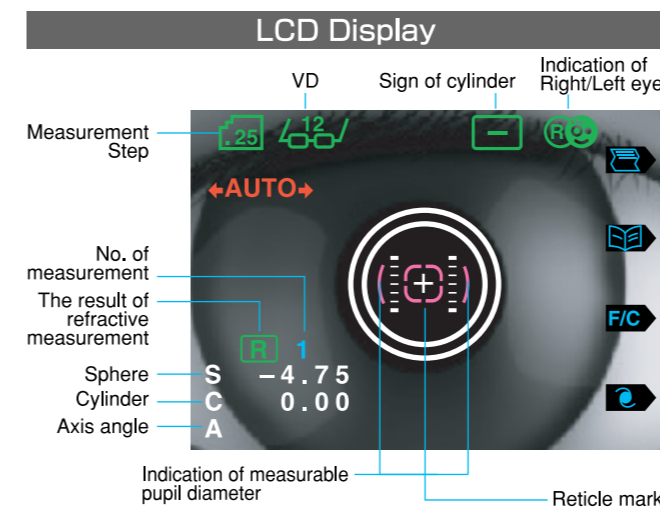
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Specification

Refraction Measurement	Sphere	-25~+25D (0.01/0.12/0.25DStep)
	Cylinder	0~±10D (0.01/0.12/0.25DStep)
	Axis angle	0~180° (1°Step)
Vertex Distance	0, 10, 12, 13.5, 15mm	
Minimum Pupil Diameter	φ2.3mm	
Pupillary Distance	Measurement Range 85mm (1mmStep)	
Printer	Thermal printer with Automatic Cutter (Width 57mm)	
Internal Monitor	5.6 inch LCD Display (Color)	
Movable Distance	Back/Force ±17mm	Right/Left ±43mm Up/Down ±17mm
Movable Distance of Chinrest	±30mm	
Overall Dimension	(W) 250mm × (D) 418mm × (H) 425mm	
Weight	About 15kg	
Output	RS232C Interface	
	Video Output (NTSC)	
Rated Voltage	100~240V	
	50/60Hz	
Consumption	80VA	
Power Save	OFF, 3,5,10 min. (Selectable)	

Accessories

- Test eye / 1 pc
- Power cable / 1 pc
- Printer paper / 3 rolls
- Fuse 2A / 2 pcs
- Chinrest paper / 1 pack (1000 sheets)
- Chinrest pin / 2 pcs
- Dust cover / 1 pc

Option

- Electric table
- Chair
- The Data Collection Software (Windows 98 or later)
- Carrying case

CAUTION For the proper and safety use, please read the Instruction Manual thoroughly before using the product.

● Agency