Presenting the all new HDR 7000 Complete refraction unit with CCP 3100 Chart Projector.

Enhance your subjective examination with various advanced tests and powerful networking.

The HDR 7000 has been designed to fully automate the subjective refraction process in your clinic. It totally replaces the need for you to refract patients using the age old Trial Lens set.

With complete integration of the system with Autorefractometer/ Keratometer, you can transfer the objective data automatically onto the Phoroptor body using the Control Panel. Once the data is loaded, using the Control panel we can perform the following functions effortlessly.

Various charts and tests

18 visual acuity test charts, 26 vision test charts, and up to 35 user defined unit test charts support the most advanced eye test process.
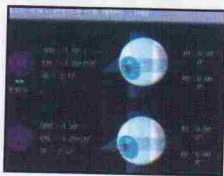
Test process programming

Maximum 10 customized test processes can be programmed and saved with the detailed setting of unit test charts conversion, auxiliary lens inserting, fogging, chart masking, etc.

User-defined test

Maximum 35 user-defined tests can be edited and stored.

Displaying the results in tables and graphics

Test results are shown in tables and graphic help to understand easier and faster.

Various image clips

Color blindness test, Amsler's Grid, and many other kinds of near vision charts are provided for more perfect test.

Various image clips including progressive lens guide, diagram of an eye & refraction, etc, support better understanding for customers.

Tilting & swivel LCD panel

Tilting & swivel LCD panel makes it possible to share the displayed information in any direction or angle.

Touch Screen

Touch screen interface offers intuitive guide with great convenience for operation.

Multi-function Jog Dial

Multi-function Jog Dial assists fast and convenient lens loading and execution of programs.

Tact switch

Elegant tact switches are well-organized functionally, and also offer satisfying feeling of touch.

Built-in printer

Built-in printer on the operation panel makes accessing the printer more convenient and replacing paper at one-step process.

LED Near Sight illumination and Detachable Near Chart Rod

Built-in LED illumination for the near sight chart automatically recognizes the near or the sight test and turns the lighting on or off to create the best lighting needed for the test environment. Easy installation and removal of the near chart rod with a magnetic joint give you more comfort.

Dual cross cylinder lens

Dual cross cylinder lens supports fast and convenient astigmatic test.

Automatic occlusion

Automatic occlusion function assists precise and comfortable astigmatic test by preventing accommodation while the lens is rotating over 45 degree or test mode is changing.

Forehead rest indicator

A sensor inside of the forehead rest notifies by showing on & off of LED indicator whether an examinee's forehead is rested on the forehead rest to assure the most precise vertex distance.

SPECIFICATION
MEASUREMENT RANGE

Spherical Lense	-29.00~+26.75D (Regular)
	-19.00~+16.75D (Cross Cylinder or Prism Test)
	(0.12D / 0.25D / 0.5D / 1.0D / 2.0D / 3.0D / 4.0D Increments)
Cylinder Lense	0.00~±8.75D (0.25D / 0.5D / 1D / 2D / 3D Increments
Cylinder Axis	0°~180°mm (1° / 5° / 15° Increments)
	48~80mm (0.5 / 1mm Increments)
PD	Near PD 50~74mm (Near Working Distance : 35~70cm)
Rotary Prism	0~20▲/ 0.2 ▲/ 0.5 ▲/ 1 ▲/ 2 ▲ Increments)
Cross Cylinder	±0.25D / ±0.50D / ±0.25D Dual Cross Cylinder (Split Prism Lens)
Retinoscope	±1.5D, ±2.0D (Measurement Distance 67cm, 50cm)

Designs and details can be changed without prior notice for the purposes of improvement.

SYSTEM NETWORKING

Chart Devices

Digital Refractor

Auto Ref-Keratometer   Customer PC   Auto Lensmeter