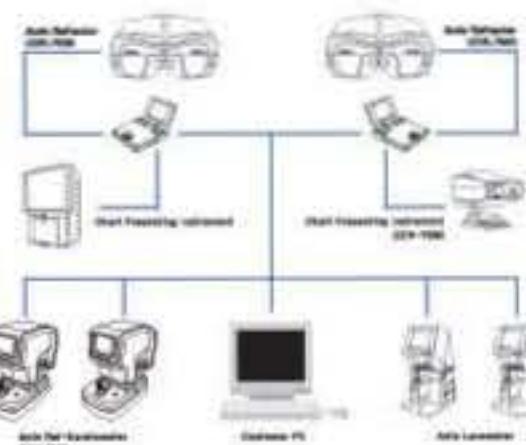




## Digital Refractor **CDR-7000**

### CDR-7000

#### SYSTEM NETWORKING



#### SPECIFICATION

##### MEASUREMENT RANGE

Spherical Lens	-29.00 → +26.750 (Regular)
Cylinder Lens	-19.00 → +16.750 (Cross Cylinder or Prism test)
Cylinder Axis	0.00 → ± 8.750 (0.250 / 0.50 / 1.00 / 2.00 / 3.00 / 4.00 increments)
PD	0° - 180° (1° / 5° / 15° increments)
Rotary Prism	0° - 20Δ (0.1Δ / 0.2Δ / 0.5Δ / 1Δ / 2Δ increments)
Cross Cylinder	± 0.250, ± 0.500, ± 0.250 Dual Cross Cylinder (Split prism lens)
Riftroscope	+1.50, +2.00 (Measurement Distance 67cm, 50cm)

##### AUXILIARY LENS

Pin Hole Lens	ø 1mm
Mirrored Rock	Right Eye(Red, Horizontal), Left Eye(Red, Vertical)
Red / Green Filter	Right Eye(Red), Left Eye(Green)
Polarizing Filter	Right Eye : (135°, 45°) Left Eye : (45°, 135°)
Split Prism	Right Eye (6.4 BU) Left Eye (10.4 BU : up to 5.4 complement)
Fixed Cross Cylinder	(± 0.500, Fixed with the axis set at 90°)
Visual Angle	32° (Diameter 32mm)

##### DIMENSION

Refractor	445 (W) x 256 (D) x 133 (H) mm 6.9kg
Controller	220 (W) x 258 (D) x 196 (H) mm 1.3kg (including Built-in Printer)
Junction Box	350 (W) x 240 (D) x 70 (H) mm 2.2kg
Power supply	AC 100-120V / AC 220-240V 50 / 60Hz
Power consumption	110VA

Design and details can be changed without prior notice for the purpose of improvement.

**HUVITZ**  
HUVITZ  
INNOVATIVE OPTICAL EQUIPMENT

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**CHAROPS**

Is your optometry service satisfying your customers?



Comfortable & perfect vision test!  
Come through CDR-7000's distinguished test functions.

**Powerful cross cylinder lens**

- The dual cross cylinder lens makes fast & convenient examinations.
- Automatic occluding function prevents examinee's eye from accommodation, while the lens is rotating over 45 degree, for precise and comfortable examination.



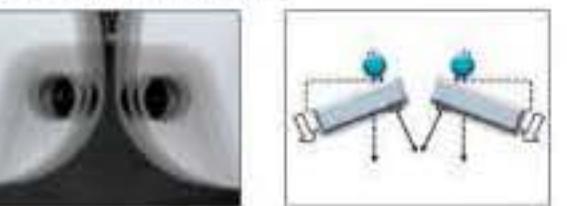
**Vertex distance check and cornea illumination**

Accurate tests are guaranteed by positioning the examined's eyes correctly before tests.



**Easy and flexible PD control**

From any mode, you can adjust the PD easily and conveniently. When the test mode is changing between far and near, the PD is automatically calculated and set.



**Support perfect convergence**

During the presbyopia and near vision test, CDR-7000 provides perfect convergence function. This function makes the examinee's eyes aligned with the center of lenses for precise measurements.

- Near PD : 45~75mm
- Near working distance : 35~70cm

**Accurate rotary prism**

Precise data can be obtained by measuring up to  $20\Delta$  by  $0.1\Delta$  step. Automatic occluding function option helps to perform precise and comfortable examinations while the prisms are changing directions.

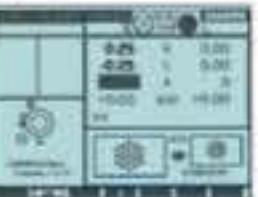
**Adjustable LCD display**

Operator always can see the clear screen by adjusting the LCD from 0 to 90 degree.

Easy examination with graphic guide function  
Guiding you to fast & convenient test.

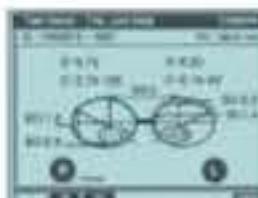
**Real-time guide**

Real time guide guides you to make easy & fast refraction showing the information you need on the LCD display by graphics.



**Displaying the result data in tables and graphics**

Well-organized result data in tables and graphics help you to understand the results at first glance.



**Operation panel with a built-in high-speed printer**

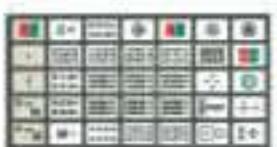
Easy and fast to combine with any kinds of refraction units without installing additional printer. The powerful 32-bit CPU loaded printer provides quick data printing. You will also be satisfied with the easy way to replace printing paper.



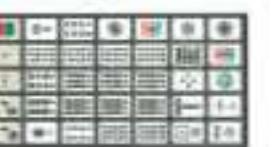
Worldwide chart & various vision test methods  
The only available in CDR-7000.

**Various chart**

Controller Type A (OP-1A)



Controller Type B (OP-1B)



Controller Type C (OP-1C)



Controller Type D (OP-1D)



**Sharp design & intelligent near vision chart**

The near point card rotates freely in all directions, 360 degree horizontally and 180 degree back and forth.  
Complete chart combination for near vision test.



Easy installation & powerful networking  
You are able to set up the next generation optometry system.

**Simple automated eyes examination system**

- Convenient system installation thru Junction box
- Single cable connection among the instruments

**Perfect networking & data management**

- Useful data-link among mirror chart, projector, refractor & tonometer. (Supports the connection of chart presentation devices by both serial and IR interface)
- Automatic data transmission & integrated management of customer's data

**Economic & efficient system**

- Built-in printer in the Operation Panel
- It is not necessary additional connection devices & installation procedure for system extension.  
(Refractometer's data and tonometer's data can be shared in multiple CDR systems.)