



Intelligence in your vision!

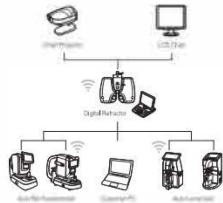
Huvitz is always striving to reflect all your questions and demands through state-of-the-art refraction system.
Finally we introduce HDR-9000 reinforced with systematic customizable refraction enabling 21 point exam and curvilinear design.
A brand new refractor, this is another challenge Huvitz will overcome.

Huvitz Digital Refractor HDR-9000

Specification

Measurement Range	
Spherical Lens	-20.00 ~ +26.75D (Regular) -19.00 ~ +16.75D (During KC or Prism Test) (0.12, 0.25, 0.51, 1.0, 2.0D increments)
Cylindrical Lens	0.00 ~ -9.75D @ 25.0, 51.2, 12.5D incremental
Column Axis	0°-180° (0.5, 1.5° increments)
PD	45-80mm @ 5.1mm increments Near PD : 50-74mm Near Working Distance : 35-70cm
Binary Prism Lens	0-20.0 @ 1.0, 2.0, 5.1, 12.5 Δ increments
Color Cylinder	±0.25D ±0.50D +0.25D Prism Split Lens (Dual Cross Cylinder)
Retinoscopic Lens	+1.50, +2.00 (Measurement Distance 67cm, 50cm)
Auxiliary Lenses	
Occluding Aperture	
Pinhole Lens	Ø 2mm
Maddox Rod	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(Dissociation) Prism	Right Eye (0 Δ, 5 Δ), Left Eye (10 Δ, 5 Δ) : up to 5 Δ complement
PD Check Lens	
Fixed KC Lens	(±0.50D, with the axis fixed at 90°)
Visual Field	40° (MD=12mm)
Hardware Specification	
Digital Refractor	329(W) X 100(D) X 200(H)mm, 4.23kg
Operation Panel	249(W) X 219(H) X 249(D)mm, 2.79kg (including internal printer)
Injection Bar	

System Networking



Tomorrow with Huvitz

What is achieved is not a future, but a history.
Serving future achievement and future satisfaction will always motivate Huvitz to redefine and recreate our history.

Huvitz
Digital Refractor
HDR-9000



The More Exam Options You Have, The More You See
[All New] HDR-9000 Digital Refractor

Here HDR-9000 with all new technologies is waiting for you.
HDR-9000 helps those who suffer from visual acuity problems with advanced refraction customizable for individual preference and satisfaction.
A beautiful curvilinear design speaks emotional stability in you.
With HDR-9000, take satisfaction which you have ever enjoyed before.

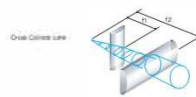


21 Point Exam Package

21 Point Exam removes complex knowledge for refraction and now everyone can perform refraction easily.
No more multiple re-orientation is needed. All of results appear on display for easy reading for both examiners and patients.



“Experience 21 Point Exam”
Accuracy, Systemization and Customization,
All in 21 Point Exam.



PD Adjustment Automatic Convergence Function

Tilttable Body
Highly advanced near vision exam is enabled with tilttable body from 0° to 45° delivering feeling of reading a book.

LCD Chart Compatibility
Compatibility with polarized LCD chart provides even economical efficiency. (Both linear and circular polarization)

Fast and Silent Lens Loading
Fast lens loading helps to minimize accommodational interference and fatigue of examinees' eyes. Silent operation offers more comfort during exam.

Slimmer Design
Slimmer design even prevents minimum mechanical interference during exam and enables easy monitoring over patients.

21 Point Exam
21 Point Exam removes complex knowledge or experience and now everyone can perform refraction easily. No more headache-explanation is needed, but all results appear on display for easy reading for both examiners and patients. Guidance with prism, addition power prescription and visual function test in accordance with exam results are available for easy use.

Cross Cylinder Lens
Dual cross cylinder lens as well as Jackson cross cylinder lens supports highly accurate exams over astigmatism axis and visual acuity. Improved speed of lens movement prevents accommodational interfering exam and guarantees accurate astigmatic exam.

Monocular Height Adjustment
Customized exam is available for those who have different monocular heights within adjustment +/- 3mm.



Various Charts and Contents
Diversification of near vision exam is realized through highly reliable near vision test charts, visual function test and various refraction charts along with vision therapy-related contents.

Real Time Guide
Graphical representation displayed on screen guides test process easier and faster in real time.

Easy Explanatory Images
Various near vision charts for incomplete color blindness test, amellar grid and many other tests such as anomaly image, refractive power readings and progressive lens guidance help patients understand results easily.

Tablet PC Control (Optional)
Exam can be carried out with not only basic OP panel, but also Tablet and PC for examiners' preferences. (Tablet PC OS : Win 7 or 8 / Resolution 1366x768)



Tilting and Swiveling Display
Regardless of examinees' positions, information on display is recognized easily by tilting and swiveling display.

Wireless Communication
Wireless Communication with HRK-9000A and HLM-9000 via Wi-Fi allows perfect data transmission regardless of working environment. Classic communication via RS-232 cable is available for data transmission with previous models.

Built-in Printer
Built-in printer on operation panel supports easy use of printer and even replacing paper at one go.



“Going Beyond Display”
New design of display not only conveys results, but also presents results and exam charts.