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 entailing 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**
  - Regular: -29.00~+26.75D (0.12/0.25/0.5/1/2/3/4D increments)
  - During XC or Prism Tests: -19.00~+16.75D (0.5 increments)

- **Cylinder Lens**
  - 0.00~±8.75D (0.25/0.5/1/2D increments)

- **Cylinder Axis**
  - 0˚~180˚ (1/5/15˚ increments)

- **PD**
  - 48~80mm (0.5/1mm increments)
  - Near: 50~74mm
  - Near Working Distance: 35~70cm

- **Rotary Prism Lens**
  - 0~20¬ (0.1/0.2/0.5/1 increments)

- **Cross Cylinder**
  - ±0.25D, ±0.50D, ±0.25D Prism Split Lens (Dual Cross Cylinder)

- **Retinoscopic Lens**
  - +1.5D, +2.0D (Measurement Distance 67cm, 50cm)

**Auxiliary Lenses**

- **Occluding Aperture**
- **Pinhole Lens**

- **Maddox Rod**
  - Right Eye (Red, Horizontal), Left Eye (Red, Vertical)

- **Hart (Green Filter)**
  - Right Eye (Green), Left Eye (Green)

- **Polarizing Filter**
  - Right Eye (135˚, 45˚), Left Eye (45˚, 135˚)

- **Split (Dissociation) Prism**
  - Right Eye (6BU), Left Eye (10BI)

- **PD Check Lens**
  - Normal: 50~74mm, with the axis fixed at 50˚
  - Visual Field: 15˚/20˚/25mm

**Hardware Specification**

- **Digital Refractor**
  - 339(kW) x 103(h) x 205(dm), 4.20kg

- **Operation Panel**
  - 249(kW) x 240(h) x 71(dm), 2.75kg (Including internal printer)

- **Function Box**
  - 249(kW) x 240(h) x 71(dm), 1.24kg

- **Power Supply**
  - 100-240VAC, 1.0~0.5A, 50/60Hz

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

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Authorized Distributor

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Tomorrow with Huvitz

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

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

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 accommodation interfering exam and guarantees accurate astigmatic exam.

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

Tiltable Body
Highly advanced near vision exam is enabled with tiltable 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.
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, amsler grid and many other tests such as anatomy 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.

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.