

Feature	HRK 7000	HRK 8000
Measurement Mode		
K/R mode	Continuous Keratometry and Refractometry	Continuous Keratometry and Refractometry
REF MODE	Refractometry	Refractometry
KER MODE	Keratometry	Keratometry
CLBC MODE	Contact Lens Base Curvature	Contact Lens Base curvature
KER P Mode	Peripheral Keratometry	Peripheral Keratometry
Color View Mode	Not Available	Color View and Contact Lens Fitting (Blue and White)
REFRACTOMETRY		
Vertex Distance	0, 12, 13.5 & 15mm	0, 12, 13.5 & 15mm
Spherical	-25 ~ +22D (VD 12mm)	-30 ~ +25 D (VD 12mm)
Cylinder & Form	±10.00 D, ±, - & ±	±12.00 D, ±, - & ±
Axis	0 ~ 180° in 1° Step	0 ~ 180° in 1° Step
Pupillary Distance	10 ~ 85 mm	10 ~ 85 mm
Minimum PupillaryDia	2.0 mm	2.00 mm
KERATOMETRY		
Radius of Curvature	5 ~ 10.2 mm in 0.01mm increments	5-13 mm in 0.01 mm increments
Corneal Power	33.00 ~ 67.5 D (when corneal in 0.05, 0.12 & 0.25 D steps & 0.25D steps	25 ~ 67.5 D (When Corneal refraction 0.12 is 1.3375) refraction is 1.3375) in 0.05,
Corneal Astigmatism	0.0	15.00 00.00 ~15.00 D
Axis	0 ~ 180° in 1°Step	0 ~ 180° in 1° Step
Pupil & Iris Diameter	2.0 ~ 14.00 mm in 0.1mm steps	2.0 ~ 14.00 mm in 0.1mm steps
Memory of Data	10 measurements for each eye	10 measurements for each eye
MOVEMENT RANGE AUTO	Not available	
UP DOWN	Not available	±15 mm
Left-Right	Not available	±5 mm ±2mm
Forward – Backward	Not available	± 15 mm
OTHERS		
Display	6.5 " color TFT LCD	7.0 " Touch Color TFT LCD
Internal Printer	Thermal	Thermal with auto Cut
Power Saving Mode	Auto Switch Off (5min)	Auto Switch Off (5min)
Power Supply	AC 100 ~ 240 v, 50/60 Hz (Free voltage) 60W	AC 100 ~ 240 v, 50/60 Hz (Free voltage) 60W
Dimension	252(W) X 500(D) X 432 (H) / 20 Kg	262 (W) X 500 (D) X 441 (H) / 20 Kg

Designs and Dimensios can be changed without prior notice for Improvements.

Manufactured by

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Exclusively Marketed in India by

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HRK 8000

Auto Ref-Keratometer



HRK 7000

Auto Ref-Keratometer


Pacing Progress toward People


 USA VISION ON TECHNOLOGY

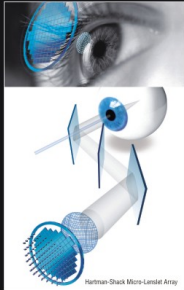
HRK 8000

Auto Ref-Keratometer

High Order Aberrometry Data Output
Opens Possibilities for High Market
Trended Customized Lens Applications!



Optimized Optical System



Wavefront Technology measures the wavefront of light reflected from the retina and the refractive power with various sensors divided by sectors and analyzes them with extreme precision.

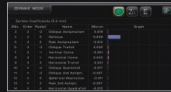
Micro Lens Array

Huvitz' own developed Micro Lens Array creates a number of separated focal spots, of which the pattern provides valuable information of the customer's ocular system.

Customized Lens Manufacturing

High order aberration and Zernike map data output function allow premium custom spectacle or contact lens manufacturers to improve vision accuracy and power.

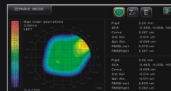
More Data on Aberration Measurement



High order aberration data such as Coma, Trefoil, Spherical Aberration, Secondary Astigmatism, and Tetrafoil, which was only available in wavefront aberrometers, now is available in Huvitz HRK-8000A!

Clinical usage of this data is all in your hands!

High Order Aberration Map is on!



Besides the conventional data such as Spherical, Cylinder and Axis, the high order aberration data is displayed in a graphical Zernike refraction map for better understanding of patient's eyes and superior clinical decision making.

PSF & Image Simulation



Point Spread Function (PSF) and chart simulation of retinal display can make patients understood in a much better way of their clinical status of eyes and customized lens benefits.

Color View Mode!



The Full Color CCD camera and white LED light source in the auto ref-keratometer enable you to see eyes and contact lens fitting status which was previously only possible with still lamps.

Peripheral Keratometry Measurement



HRK-8000A provides peripheral keratometry measurement data that can be greatly useful for fitting contact lenses.

Ultra High Precision KER Data

Mire ring and LED sources enable highly reliable keratometry data of the corneal base curve to be obtained.

HRK 7000

Auto Ref-Keratometer



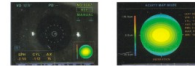
Image showing the Huvitz HRK-7000 connected to an external monitor (optional)

Optimized Optical System

HUVITZ's own developed MICRO LENSLET ARRAY creates a number of separated focal spots, of which the pattern provides valuable information about customer's ocular system. And SLD (Super Luminescent Diode) and highly sensitive CCD offers clearer images and secures accurate measurement result from ametropia, cataract and IOL.

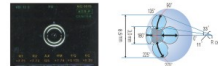
Graphical Display of Refraction Map

The graphical display of refraction errors enhances customers' understanding and reliability.



Peripheral keratometry Measurement

HRK-7000 provides peripheral keratometry measurement data that can be greatly useful for fitting contact lenses.



Reliable Keratometry Measurement

HRK-7000 offers reliable keratometry data using 2 mire rings, and 2 LEDs.



Retro-Illumination Mode

You can see abnormal crystalline lenses, cataracts, and scratches of corneas helping you to determine how healthy the customers' eyes are. With increased REF power, you also can check SPH, CYL, and AXIS that cannot be measured in the normal mode.



6.5" Color TFT LCD

The 6.5" Color TFT LCD displays clear images and the image processing chip allows the LCD to show real time image.

IOL Measuring Mode

HRK-7000 determines the condition of eyes automatically to detect if there are IOLs or cataracts, and measures them.

Pupil and Iris Size Measurements

HRK-7000 can measure pupil, cornea, and iris size under 14mm in diameter by freezing the image.



CLBC (Base Curvature)

Using the contact lens holder, you can measure the base curvature of contact lens.

Easy Set-Up

The user-friendly interface allows users to set the functions more easily, and the changes of settings can be done without moving the page.



Convenient One-Touch Lock

With the convenient one-touch lock, the main body can easily be fixed to the base.



High Speed Printer

The high speed printer prints out the final measurement results in 3 seconds. The printing paper can be changed easily by adopting the one-touch paper holder.

