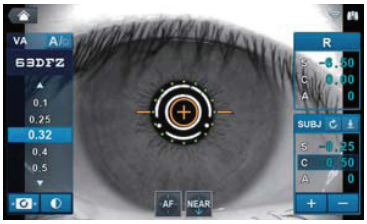
HRK-9000A
Auto Ref/Keratometer
with wavefront technology

Subjective VA Testing

Comparison between subjective & objective VA tests yields more reliable and accurate data.

Subjective VA test is useful in deciding necessity of progressive lenses because it checks visual acuity based on patient response.



Subjective VA Test - Glare Mode

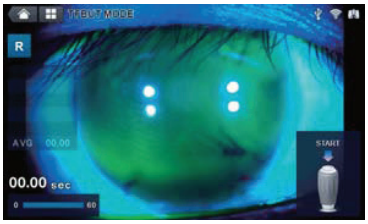
Contrast Sensitivity & Glare Test

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

TFBUT Measurement & Meibography

Conditions of tear film and dry eye can be collected by TFBUT (Tears Film Break-Up Time) are readable for thorough understanding of visual acuity.

Degeneration of meibomian gland can be also monitored with enough light source and image enhancement function.



TFBUT Measurement

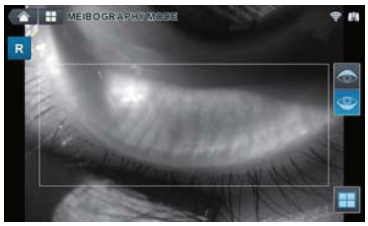
Wavefront Technology

Huvitz' wavefront analysis algorithm goes beyond general refraction to conclude highly accurate and reliable cornea refractive power and index.

Wavefront technology measures the wavefront of light reflected from the retina and the refractive power with various sensors divided by sectors & analyses 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 patients' ocular systems.



Meibography Measurement

Other Features Include:

- More Accurate Data
- Colour View Mode
- Peripheral Keratometry Measurement
- IOL Mode
- Iris and Pupil Diameter Measurement
- Contact Lens Fitting Assistance Guide
- Efficient Contact Lens Prescription
- Adjustable 7" LCD Touchscreen Display
- Auto Tracking
- Auto Cutting Printer
- Wireless Communication

OPTICARE

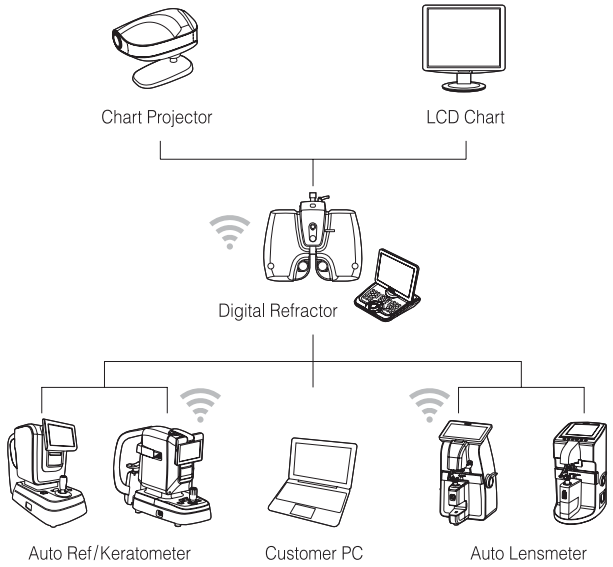
HRK-9000A
Auto Ref/Keratometer

Technical Specifications

Measurement Mode	K/R Mode	Continuous Keratometry & Refractometry
	REF Mode	Refractometry
	KER Mode	Keratometry
	KER P Mode	Peripheral Keratometry
	Colour View Mode	Colour View & Contact Lens Fitting Assistance (White & Blue LED light)
	Meibography Mode	Special Mode for Observing Meibomian Gland
	TFBUT Mode	Special Mode for Measuring TFBUT (Tear Film Break-up Time)
Refractometry	Vertex Distance (VD)	0.0, 12.0, 13.5, 13.75, 15.0
	Sphere (SPH)	-30.00~+25.00 (VD=12mm) (Increments : 0.01, 0.12, 0.25D)
	Cylinder (CYL)	0.00~±12.00D (Increments: 0.01, 0.12, 0.25D)
	CLBC Mode	1 ~ 180° (Increments: 1°)
	Cylinder Form	- , + , ± (Mixed)
	Pupil Distance	10 ~ 85mm
	Min. Pupil Diameter	Ø2.0mm
Keratometry	Radius of Curvature	5.0 ~ 10.2mm (Increments: 0.01mm)
	Corneal Power	33.0 ~ 67.50D (When corneal equivalent refractive index is 1.3375) (Increments: 0.05/0/12.0/25D)
	Corneal Astigmatism	0.00~ - 15.00D (Increments: 0.05/0.12/25D)
	Axis	0° ~ 180° (Increments: 1°)
	Pupil/Iris Diameter	2.0 ~ 14.0mm (Increments: 0.1mm)
	Memory Data	10 measurements for each eye

Movement Range	Up-Down	±15mm
	Left-Right	±5mm, ±2mm
	Forward-Backward	±5mm, ±2mm
Other	Display	7” Widescreen Color TFT LCD Touch Screen with Tilting function
	Interface	RS-232 x 1, USB(for Service) x 1, Wi-Fi (for Data communication)
	Wi-Fi	Band : 2.4GHz, IEE802.11b/g Security : WPA2-PSK
	Internal Printer	Thermal Line Printer with Auto Cutting function
	Power Saving	Automatic Switch-Off (5 mins)
	Power Supply	AC100-240V, 50/60Hz, 60W
	Size	262mm (W) x 518mm (D) x 441mm (H)
	Weight	19kg

System Networking



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