



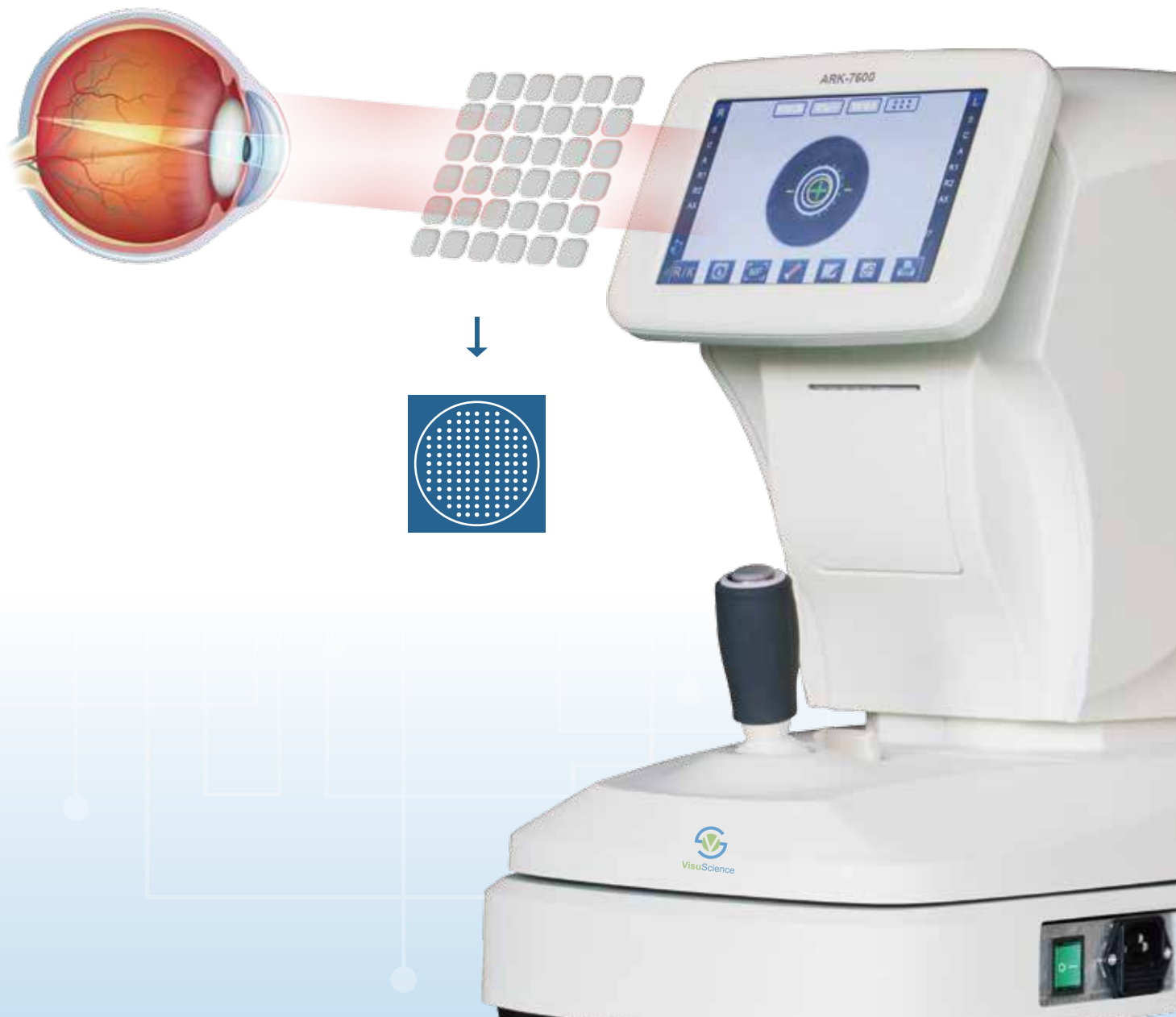
Auto Ref/Keratometer AR(K)-7600

Fast Examination with Accuracy Guaranteed

Listen to the clinical

Wavefront Technology Guarantee Accurate Measurement

The AR(K)-7600 series auto refractometer/keratometer applied advanced wavefront technology to measure patient's refraction status. With Hartmann-Shack sensor and uniquely designed optical system, AR(K)-7600 can give quick examination and deliver accurate measuring result to the optician and ophthalmologists based on aberration analysis.





Uniquely Designed Optical System

The special optical system and algorithm incorporated in the AR(K)-7600 enable it to measure high myopia eyes (up to $-30.00D$), mild to medium cataract eyes and patients wearing IOL. Unlike the mire technology used in traditional autorefractometer, the light from AR(K)-7600 can penetrate the cloudy lens and reaches the retina making the measurement possible.



Manual Focus Operation Guide

When the pupil is out of focus during manual operation, the screen will show arrows to guide the operator to move the joystick to reach focus status.



Auto Measuring

When the patient's pupil is in focus, the device will measure the refraction data automatically and record in 3 groups of data.

Touch and Tilting Color Screen Display

AR(K)-7600 offers a high resolution 7" touch and tilting color screen to make the operation being user friendly to the operator.

The operator can tilt the screen up to 40 degrees for easy review of the contents on the screen.





Quick Measuring Mode

For children patient and patients have nystagmus whose eye balls moves quickly and hard to fix for a short time, AR(K)-7600 offers a quick measuring mode which can capture the refraction information in very short time.

Motorized Chin Rest

The own developed motor used to control the chin rest up and down generates very low noise. That makes the chin rest move smoothly and offer great comfort to the patient.



Data Record

There is 3 groups of data stored in each measurement. The maximum number is 10 groups to be stored at one time.

DATA RECORD							
R	SPH	CYL	AX	L	SPH	CYL	AX
1	-0.50	-1.50	95	1	-0.50	-1.25	99
2	-0.50	-1.50	95	2	-0.50	-1.25	99
3	-0.50	-1.50	95	3	-0.50	-1.25	99
4				4			
5				5			
6				6			
7				7			
8				8			
9				9			
10				10			
AVG	-0.50	-1.50	95	AVG	-0.50	-1.25	99

REF KER

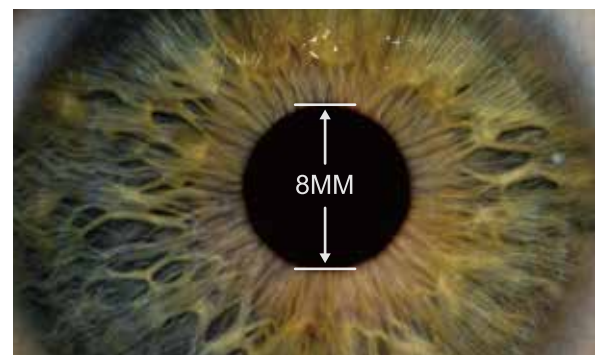
Connect to Monitor

AR(K)-7600 can connect to PC or other monitor screen with data acquisition card and data cables.



Pupil Diameter Measurement

AR(K)-7600 can measure the pupil diameter from 2mm to 8mm.



Specification

AR(K)-7600

MEASUREMENT MODE

Measurement Method	Hartmann-Shack wavefront sensor
K/R Mode	Continuous keratometry & refractometry
REF Mode	Refractometry
KER Mode	Keratometry
CLBC Mode	Contact lens base curve measurement
Pupil Tracking	Manual
Measuring Type	Auto

REFRACTOMETRY

Vertex Distance(VD)	0.0, 12.0, 13.75, 15.0
Sphere(SPH)	-30.00D ~ +25.00D (When VD=12mm) (0.01D / 0.06D / 0.12D / 0.25D step)
Cylinder(CYL)	0.00D ~ ±10.00D (0.06D / 0.12D / 0.25D step)
CLBC Mode	1° ~ 180° (1° step)
Cylinder Mode	+, +/-, -
Pupil Distance(PD)	10 ~ 86mm
Minimum Pupil Diameter	2.0mm

KERATOMETRY

Radius of Curvature	5.0 ~ 10.0mm (0.01mm step)
Corneal Power	33.00D ~ 67.00D (When corneal equivalent refractive index is 1.3375)
Corneal Astigmatism	0.00D ~ 15.00D (0.06D / 0.12D / 0.25D step)
Axis	1 ~ 180° (1° step)
Pupil Diameter	2.0 ~ 8.0mm (0.1mm step)
Memory of Data	10 measurements for each eye

OTHERS

Display	Tiltable 7" touch color TFT LCD
Interface	RS-232
Internal Printer	Thermal line printer
Chart	Auto fog
Power Saving	Automatic switch-off (5min / 10min / 30min / 60min)
Measuring Light Energy	<30μw
Input Voltage	AC 100~240V, 50/60Hz
Power Consumption	40VA
Dimension	650 x 400 x 620 (mm) (L/W/H)
Weight	19.5 Kgs



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