

# i-Optik

## ARK-910 / AR-910

### *FULLY AUTOMATIC*

*Auto Ref/keratometer*

*Auto Refractometer*



Distributed By

**optohellas<sup>®</sup>**  
OPHTHALMIC EQUIPMENT

# ARK-910 / AR-910

Auto Ref/keratometer  
Auto Refractometer



# Automatic focus and measurement

## The ARK-910/AR-910 series

The ARK-910/AR-910 adopts 3D autofocus technology, which only needs simple guidance or confirmation to start the automatic focusing and measurement of the left and right eyes, equipped with a newly designed optical system, which can ensure the speed and accuracy of the measurement.



## 3D autofocus technology

The machine will automatically search for eyeballs and make measurements.



## High precision

Newly optical structure with partition control system, ensure accurate measurement.



## Easy operation

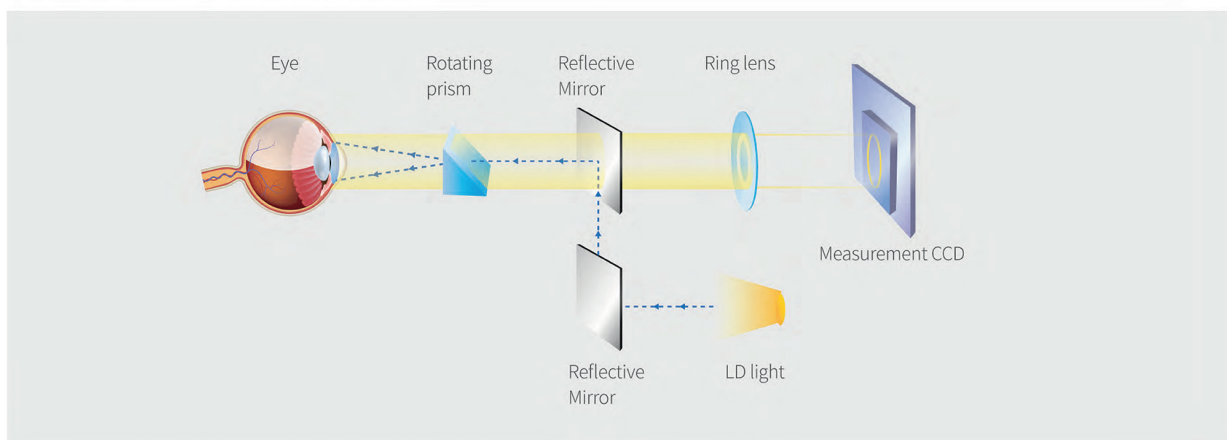
Without using a joystick, even inexperienced people can operate easily.



**Multiple improvements of objective refraction**

## LD light and high-sensitivity CCD

The built-in LD light source provides a clearer and sharper image than the traditional LED. In addition, the upgraded high-sensitivity CCD can detect the ring image even if the fundus reflection is weak. This new optical system significantly improves the measuring ability, even for dense cataractous eyes.



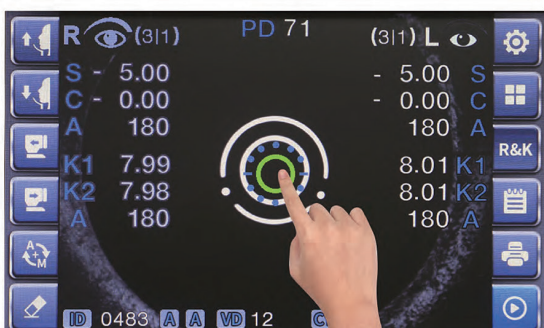
## Independent fogging and measurement system

Two sets of independent mechanisms are used to control fogging and measurement respectively, to avoid the accommodation of the eyes during measurement, and ensure that the measurement is carried out in the best fogging condition, so as to improve the accuracy of measurement.



## Intelligent touch operation

The required functions can be reached at one touch, and the corresponding functions can be accessed and realized through different touch methods.



## One touch auto tracking and measurement

Double-click the screen or press the measurement button, it could carry out automatic eye tracking, focus and measurement, the whole process only takes about 10 seconds.



## Retro-Illumination Image management

The Retro-Illumination image makes it possible to observe the opacity of the optical medium of the eye.



## Peripheral Keratometry Measurement

Based upon the center of cornea, measure the curvature of part around cornea from the positions of up/down and left/right direction.



### **Tiltable LCD touch screen**

7.0-inch touch screen with high-quality hinges, the screen can be adjusted and stably maintained at the desired angle.



### **Motorized chin rest**

The height of the subject's eyeball can be quickly adjusted through the touch screen or physical button before the measurement, and the motor runs smoothly and quietly.



### **Built-in thermal printer**

High-speed printer with quick paper loading design, when replacing printer paper we just need to put the paper roll into the receptacle and close the cover, the receipt can be cut automatically after printing.

# ARK-910 / AR-910

## Key features and benefits

- Refraction measurement (Sphere, cylinder and axis)
- Measuring the radius of the cornea (AKR-910 model)
- Measuring the pupil distance.
- Managing the Retro-Illumination Image.



## Wireless data transfer

It can be connected wirelessly with i-Optik computerized vision tester and transfer data, which makes refraction more convenient and efficient.

## Specifications

### Refractive measurement

|                                    |                                               |
|------------------------------------|-----------------------------------------------|
| Sphere:                            | -25.00~+22.00D<br>(0.12/0.25D step) (VD=12mm) |
| Cylinder:                          | 0.00~±10.00D (0.12/0.25D step)                |
| Axis:                              | 0~180° (1° step)                              |
| Pupil Distance:                    | 10~85 mm                                      |
| Minimum measurable pupil diameter: | φ2.0mm                                        |
| Target fixation:                   | Auto fog system                               |

### Corneal curvature measurement

(ARK-910 model only)

|                      |                                |
|----------------------|--------------------------------|
| Radius of curvature: | 5~10mm (0.01mm step)           |
| Corneal Refraction:  | 33.75~67.50D (0.12/0.25D step) |
| Corneal Astigmatism: | 0.00~±15.00D (0.12/0.25D step) |
| Axis:                | 0~180° (1° step)               |
| Corneal diameter:    | 2.0~12.00mm                    |

### Others

|                        |                                     |
|------------------------|-------------------------------------|
| Monitor:               | 7-inch Color LCD                    |
| Printer:               | Thermal line printer                |
| Interface:             | RS232/Bluetooth                     |
| Power saving function: | OFF/ 5/ 15 minutes                  |
| Power supply:          | AC100-240V, 50/60Hz                 |
| Power consumption:     | 75VA                                |
| Dimensions/weight:     | 262 (W) *467 (D) *487 (H) mm/17.2kg |