

# Auto Ref/Keratometer ARK-530A / 510A

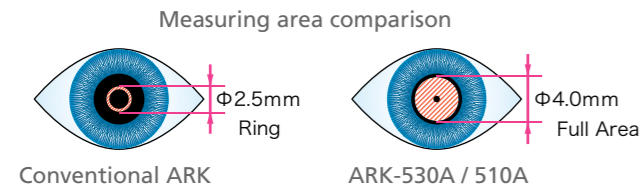
## ■ Excellent Measurement Accuracy

### Highly Accurate Refractometer

The combination of new measuring principle - **Pupil Zone Imaging Method** - and unique technology - **SLD** - offers high accuracy and reliability in refraction measurement.

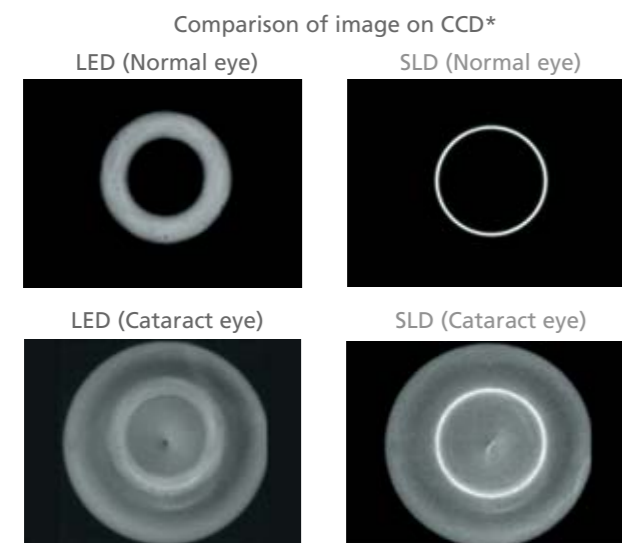
#### 1. Pupil Zone Imaging Method

The NIDEK ARK-530A / 510A adopts the advanced **Pupil Zone Imaging Method** for refraction measurement, which analyzes a wider area (Max.  $\phi 4$  mm) to obtain more reliable and realistic data that is closer to subjective refraction.



#### 2. SLD (Super Luminescent Diode)

The ARK-530A / 510A uses the **SLD (Super Luminescent Diode)** and highly sensitive CCD device for improved image quality. The image with the SLD is sharper and clearer than those with the LED, and the system offers greatly improved measurement capability even with dense cataract and IOL implanted eyes.



\*In-house trial data (Model eye)



### Reliable Keratometer

The ARK-530A / 510A also offers high accuracy in keratometry measurement.

The system provides ordinary measurement ( $\phi 3.3$  mm) using a mire ring, and also peripheral measurement ( $\phi 6$  mm) using 4 points, both of which offer reliable and accurate keratometry data. The ARK-530A / 510A uses double mire rings for better alignment and observation.



Projected double mire rings

### ■ Wide Measurement Range: -30 to +25D

The ARK-530A / 510A offers the widest measurement range of -30 to +25D.

### ■ Smallest Measurable Pupil Size: $\phi 2$ mm

The ARK-530A / 510A can measure small pupils down to 2 mm in diameter, allowing wider application.

### ■ 3D\* Auto Tracking & Auto Shooting

The auto-alignment (X & Y directions), auto-focusing (Z direction) and auto-shooting provide faster, simpler and more accurate measurements. When alignment is performed correctly, measurement starts automatically.

\*3D : ARK-530A only

Function / Model	Auto Tracking		Auto Shoot
	X-Y-Z	Y	
ARK-530A	○		○
ARK-510A		○	○



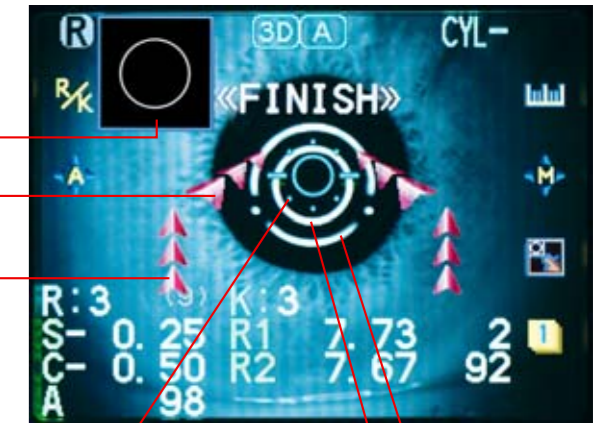
## ■ Informative 5.7-inch Tiltable Color LCD

Clear image and data display with user-friendly guidance allow easier and more reliable operation.

Thumbnailed image on CCD, which can be enlarged by pressing button

Guidance mark to move the main body toward the patient's eye

Guidance mark to raise the chinrest



Minimum pupil diameter mark      Double mire rings

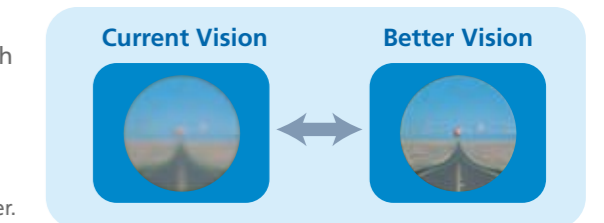


Tilting color LCD

The clear 5.7-inch color LCD with tilting function offers easy operation even for a standing operator.

## ■ Virtual Vision Comparison

A virtual comparison between patients' current vision (with the unaided eye or with glasses\*) and AR-corrected vision can be easily demonstrated.



\*Requires data transfer from a NIDEK auto lensmeter.

## ■ Motorized Chinrest

The motorized chinrest with simple up / down buttons facilitates smoother operation.



Up / down buttons

## ■ One-Touch Lock

The main body can be fixed with the advanced one-touch lock.