

ARK-560A / 530A / 510A



Auto Ref/Keratometer ARK-560A / 530A / 510A

Excellent Measurement Accuracy

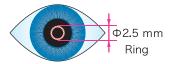
Highly Accurate Refractometer

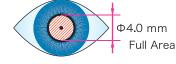
The combination of new measuring principle - **Pupil Zone Imaging Method** - and unique technology - **SLD** - offers high accuracy and reliability in refraction measurement.

1. Pupil Zone Imaging Method

The NIDEK ARK-560A / 530A / 510A adopts the advanced **Pupil Zone Imaging Method** for refraction measurement, which analyzes a wider area (Max. Ø4 mm) to obtain more reliable and realistic data that is closer to subjective refraction.

Measuring area comparison





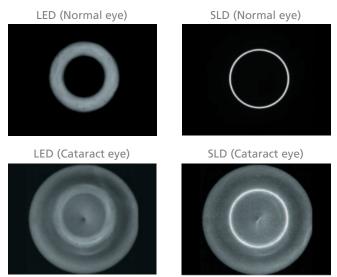
Conventional ARK

ARK-560A / 530A / 510A

2. SLD (Super Luminescent Diode)

The ARK-560A / 530A / 510A uses the SLD (Super Luminescent Diode) and highly sensitive CCD device for improved image quality. The images with the SLD are sharper and clearer than those with the LED, and the system offers greatly improved measurement capability even with dense cataract and IOL implanted eyes.

Comparison of image on CCD*







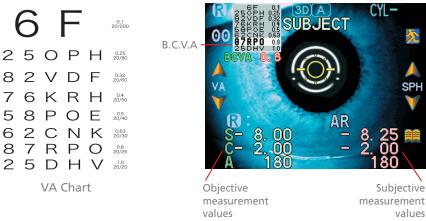
NIDEK's Innovative Auto Ref/Keratometer for Higher Precision and Better Operability.

Unique VA Measurement*

The ARK-560A is the unique unit that provides visual acuity (VA) measurement. This function enables quick checkup of patient's refractive error by comparing subjective measurement with objective measurement. Even corrected visual acuity on near vision is measurable with easy operability, which allows proposal of progressive lens necessity.

*Only for the ARK-560A





■ High Speed Printer with Easy Loading & Auto Cutter

The ARK-560A / 530A / 510A incorporates a high speed and user-friendly printer, and the printer paper can be changed easily.





Easy Paper Loading

Printed data sheet is cut by the auto cutter for quick and easy detachment.

Auto Cutter

■ Eye Care Card System*

The ARK-560A / 530A / 510A incorporates the card slot for the Eye Care card system, which provides quick and easy wireless data transfer. *The card is optional.

■ Informative 5.7-inch Tiltable Color LCD

Clear image and data display with userfriendly guidance allow easier and more reliable operation.

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

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



Minimum pupil diameter mark Double mire rings

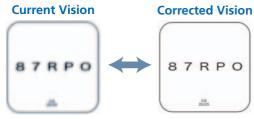


The clear 5.7-inch color LCD with tilting function offers easy operation even for a standing operator.

■ Recall Function for Vision Comparison

A comparison between patients' current vision of unaided eye or glasses-corrected*1 eye and corrected vision with internal spherical and cylindrical lenses*2 can be easily demonstrated.

- *1 Requires data transfer from a NIDEK auto lensmeter.
- *2 Spherical and cylindrical lenses only for the ARK-560A Spherical lens for the ARK-530A / 510A



Vision Comparison of the ARK-560A

■ Motorized Chinrest

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

One-Touch Lock

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



Reliable Keratometer

The ARK-560A / 530A / 510A also offers high accuracy in keratometry measurement.

The system provides ordinary measurement (ø3.3 mm) using a mire ring, and also peripheral measurement (ø6 mm) using 4 points, both of which offer reliable and accurate keratometry data.

The ARK-560A / 530A / 510A uses double mire rings for better alignment and observation.



Projected double mire rings

Wide Measurement Range: -30 to +25 D

The ARK-560A / 530A / 510A offers the wide measurement range of -30 to +25 D.

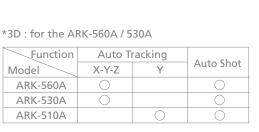
Small Measurable Pupil Size: ø2 mm

The ARK-560A / 530A / 510A can measure small pupils down to 2 mm in diameter, allowing wider application.

3D* Auto Tracking & Auto shot

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

Functi	on	Auto Tracking		A 1 . Ch . 1
Model		X-Y-Z	Υ	Auto Shot
ARK-560	A	0		0
ARK-530	A	0		0
ARK-510	A		0	0





ARK-560A / 530A / 510A Specifications

Model	ARK-560A	ARK-530A	ARK-510A
Auto refractometer			
Measurement range	Sphere -30.00 to +25.00 D (VD = 12 mm)		
, and the second	(0.01 / 0.12 / 0.25 D increments)		
	Cylinder 0 to ±12.00 D		
	(0.01 / 0.12 / 0.25 D increments)	←	←
	Axis 0 to 180°		
	(1°/ 5° increments)		
Measurable minimum pupil diameter	· · ·		
Chart	Scenery chart		
Auto keratometer	Scenery chart		
Measurement range	Radius curvature 5.00 to 13.00 mm		
measurement range	(0.01 mm increments)		
	Refractive power 25.96 to 67.50 D (n = 1.3375)		
	(0.01 / 0.12 / 0.25 D increments)		
	Astigmatism 0 to ±12.00 D		
	(0.01 / 0.12 / 0.25 D increments)	←	←
	Axis 0 to 180°		
	(1° / 5° increments)		
Ordinary measurement area	ø 3.3 mm (R = 7.7 mm)		
Peripheral measurement area	ø 6.0 mm (R = 7.7 mm)		
Sagital radius measurement	25° each from the center		
	(Superior side, Inferior side, Temporal side, Nasal side)		
VA measurement			
Measurement range	Less than 0.1, 0.1, 0.25, 0.32, 0.4, 0.5, 0.63, 0.8, 1.0 or		
	Less than 20 / 200, 20 / 200, 20 / 80, 20 / 60, 20 / 50, 20 / 40, 20 / 30,		
	20 / 25, 20 / 20		
Correction range	Sphere -20.00 to +20.00 D (VD = 12 mm)	Not available	Not available
	(0.25 D increments)		
	Cylinder 0 to ±8.00 D (0.25 D increments)		
	Axis 0 to 180° (1° / 5° increments)		
PD measurement range	30 to 85 mm (1 mm increments)		
D measurement range	(Near point PD: 28 to 80 mm at WD = 40 cm)	←	←
Corneal size measurement range	10 to 14 mm (0.1 mm increments)	←	←
Pupil size measurement range	1 to 10 mm (0.1 mm increments)	· ←	· · · · · · · · · · · · · · · · · · ·
Auto tracking / Auto shot	X-Y-Z directions	,	Y direction
Auto tracking / Auto shot	Auto shot	←	Auto shot
Vision comparison	Corrected vision with	Corrected vision	71010 31101
Vision companson	spherical and cylindrical lenses	with spherical lens	←
Display	Tiltable 5.7-inch color LCD	₩101 3p11011001 10113	←
Printer	Built-in thermal type line printer (Easy loading and auto cutter)	←	
Interface	RS-232C (IN / OUT), LAN, USB, Eye Care card system* *Card is optional	<u>`</u>	<u> </u>
	AC 100 to 240 V 10%	_	
Power supply	50 / 60 Hz	←	←
Power consumption	100 VA	←	—————————————————————————————————————
· · · · · · · · · · · · · · · · · · ·		<u></u>	
Dimensions / Mass	260 (W) x 481 (D) x 455 (H) mm / 20 kg	←	←
	10.23 (W) x 18.93 (D) x 17.9 (H) " / 44.1 lbs.		
Standard accessories	Printer paper, Power cord, Dust cover,	←	←
	Chinrest paper, Fixing pins, Model eye		
Optional accessories	Interface cable, Barcode scanner, Magnetic card reader	←	←

Caution: U.S. Federal Law restricts this device to sale, distribution and use by or on the order of a physician or other licensed eye care practitioner. Specifications and design are subject to change without notice.



HEAD OFFICE

34-14 Maehama, Hiroishi Gamagori, Aichi, 443-0038, Japan Telephone: +81-533-67-6611 Facsimile :+81-533-67-6610 URL: http://www.nidek.co.jp

[Manufacturer]

TOKYO OFFICE (International Div.)

3F Sumitomo Fudosan Hongo Bldg., 3-22-5 Hongo, Bunkyo-ku, Tokyo, 113-0033, Japan

Telephone: +81-3-5844-2641 Facsimile :+81-3-5844-2642 URL : http://www.nidek.com

NIDEK INC.

47651 Westinghouse Drive Fremont, CA 94539, U.S.A. Telephone: +1-510-226-5700

:+1-800-223-9044 (US only) Facsimile :+1-510-226-5750 URL : http://usa.nidek.com

NIDEK S.A.

Europarc 13, rue Auguste Perret 94042 Créteil, France

Telephone:+33-1-49 80 97 97 Facsimile :+33-1-49 80 32 08

NIDEK TECHNOLOGIES Srl

Via dell'Artigianato, 6 / A 35020 Albignasego (Padova), Italy Telephone: +39 049 8629200 / 8626399 Facsimile :+39 049 8626824 URL: http://www.nidektechnologies.it

