NIDEK

Auto Ref/Kerato/Tonometer

TONOREF™ II

The Art of Eye Care

AUTO REF/KERATO/TONOMETER

TONOREF™ II

The TRIumph of Excellence

Three essential measurements combined in one UNIQUE instrument:
The world's first

Auto Refractometer

Auto Keratometer

Non-Contact Tonometer

combination unit.

Compact and User Functional

This newer compact, more user friendly design allows for enhanced patient flow by providing Auto Refractometer / Auto Keratometer / Non-Contact Tonometer measurement in one setting.

The user can easily select patient measurement modes and allow easy access to patients eyelids.

NEW TECHNICAL ADVANCEMENTS incorporated in TONOREF™ II allow:

-Smooth, Easy transition patient measurement modes
-New Design facilitates quick access to eyelid

Size of Previous Model

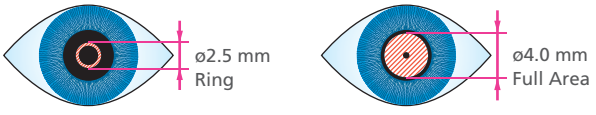
Accuracy of the Refraction

Building on NIDEK's tradition of high quality and accuracy, the TONOREF™ II adopts the state of the art measurement principle found in the NIDEK ARK-500 and AR-300 series.

Pupil Zone Imaging Method

The Pupil Zone Imaging Method for refraction measurement analyzes a wider area (Max. ø4 mm) to provide more reliable data.

Measuring area comparison



Conventional ARK　　TONOREF™ II

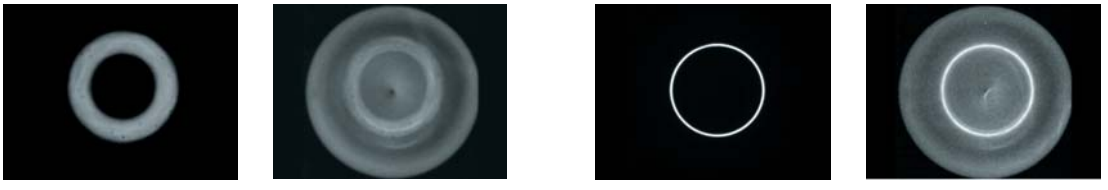
SLD (Super Luminescent Diode)

A SLD and a highly sensitive CCD device enable.

-Improved image quality
-Measurement of densely cataractous eyes and pseudophakic eyes
-Sharper Clearer images than LED

Comparison of image on CCD*

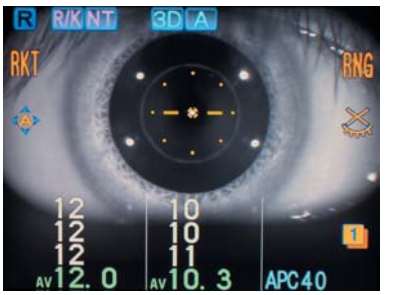
LED (Normal eye)　LED (Cataract eye)　SLD (Normal eye)　SLD (Cataract eye)



*In-house trial data (Model eye)

Attracitve 5.7-inch VGA Tiltable Color LCD

Clear image and data display with user-friendly colored graphical icons help operators easily recognize the data.



New Mire Ring for Screening and Detecting

The newly adopted mire ring enables simple and quick screening and **detecting of corneal surface abnormalities.**

Tilting color LCD

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

Comfortable Tonometry Measurement

Recent enhancements such as the advanced APC (Auto Puff Control) and noise reduction provide for a more comfortable patient experience.

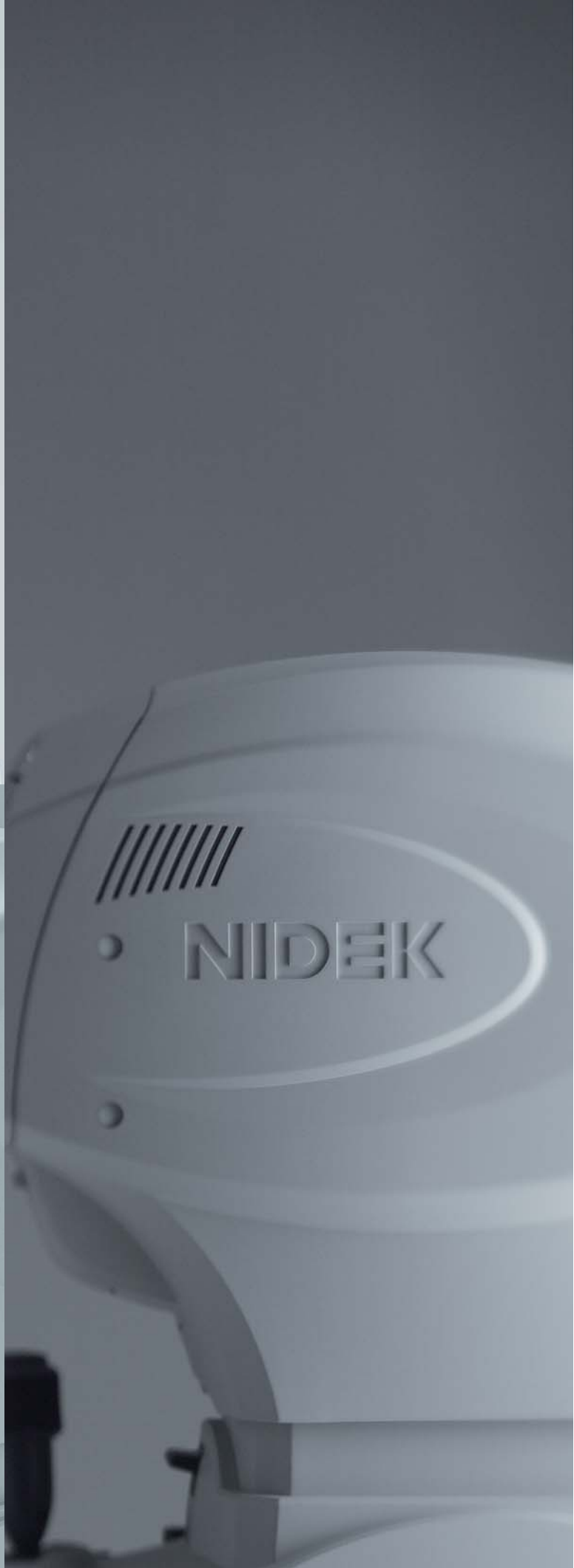
Quick and Accurate Keratometer Measurement

Printer with Easy Loading & Auto Detachment

Newly adopted printer provides fast and auto paper loading capabilities. The built-in auto detachment cuts the data-printed paper automatically.


NIDEK


NIDEK


NIDEK

TONOREF™ II Specifications

Auto refractometer		
Measurement range	Sphere	-30.00 to +25.00 D (VD=12 mm) (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	ø2 mm	
Chart	Scenery chart	
Auto keratometer		
Measurement range	Radius curvature	5.00 to 13.00 mm (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)
Measurement area	ø3.3 mm (R=7.7 mm)	
Non-contact tonometer		
Measurement range	1 to 60 mmHg	
Measurement range setting	APC40, APC60 (APC=Automatic Puff Control), 40, 60	
Working distance	11 mm	
Eye fixation	Inner fixation light	
PD measurement range	30 to 85 mm (indication increments: 1 mm)	
Corneal size measurement range	10.0 to 14.0 mm (indication increments: 0.1 mm)	
Pupil size measurement range	1.0 to 10.0 mm (indication increments: 0.1 mm)	
Auto tracking / Auto shot	X-Y-Z direction Auto shot	
Display	Tiltable 5.7-inch color LCD	
Printer	Thermal line printer with automatic paper cutter	
Interface	RS-232C (IN / OUT), LAN, USB	
Power supply	AC 100 to 240 V ±10% 50 / 60 Hz	
Power consumption	100 VA	
Dimensions / Weight	260 (W) x 481(D) x 505 (H) mm / 23 kg at ARK standard measurement 260 (W) x 481(D) x 460 (H) mm / 23 kg at NT standard measurement 10.24 (W) x 18.94 (D) x 19.88 (H) " / 50.7 lbs. at ARK standard measurement 10.24 (W) x 18.94 (D) x 18.11 (H) " / 50.7 lbs. at NT standard measurement	
Standard accessories	Printer paper, Power cord, Dust cover, Chinrest paper, Fixing pin, Model eye	
Optional accessories	Interface cable, Barcode scanner, Magnetic card reader, Eye Care card system	

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.

Eye & Health Care
NIDEK CO., LTD.

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
URL : http://www.nidek.fr

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

PRINTED WITH SOY INK