

PALM•ARK

© HAND-HELD AUTOMATIC REFRACTOR / KERATOMETER



MARCO

THE LEADER IN VISION DIAGNOSTICS®

PALM•ARK SPECIFICATIONS

MEASURING UNIT PALM•ARK FUNCTIONS

Measurable Range

Sphere Power (S)	-20.00D to +20.00D (V.D.=12mm)
Cylinder Power (C)	0 to ±12.00D
Cylinder Axis (A)	0 to 180°

Step

Sphere Power (S)	0.12D / 0.25D
Cylinder Power (C)	0.12D / 0.25D
Cylinder Axis (A)	1° / 5°
Cylinder Mode	-, +, Mix
Vertex Distance	0, 10.5, 12, 13.75, 15, 16.5mm

Measurable Minimum Pupil Diameter

2.6mm

Removal of Accommodation

Auto fogging

Corneal Radius of Curvature (R1, R2, AVE)

Measurable Range	5.00 to 10.00mm
Step	0.01mm

Refractive Power (R1, R2, AVE)

Measurable Range	25.96D to 67.50D (n=1.3375)
Step	0.12D / 0.25D
Refractive Index	n=1.3375 / 1.336 / 1.332

Corneal Astigmatism (CYL)

Measurable Range	0 to ±12.00D
Step	0.12D / 0.25D

Corneal Axis (AXIS)

Measurable Range	0° to 180°
Step	1° / 5°
KM Measurable Area	3.3mm diameter on cornea (for corneal curvature radius of 7.7mm)

Measurement Time

AR 0.2 sec.
KM 0.1 sec.

Chart

Scenery chart

Observation

2.5" color LCD monitor

Auto Start

Measurement starts automatically when alignment and focusing are achieved properly.

Designation of Left/Right Side

Auto/Manual

Axis Correction

Auto selection (90°)

Dimensions & Weight

5.5"(w) x 5"(d) x 8"(h); about 2.5 lbs. (including battery)



The ARK-30 (Palm•ARK) is manufactured by Nidek.

DOCKING STATION UNIT

Printer	Thermal line (print speed: 1"/s)
Paper Width	2", roll paper
Transmission System	Infrared (IR) interface
Interface	RS-232C
Battery	Lithium-ion (7.4V/1600mAh)
Battery Charge	Mounted in the station, about 120 to 150 min. (The measuring unit can be used during charging. Charge by mounting the battery in the measuring unit which is connected via the special cable.)

Power Source

Input: AC100/120V ±10%; 50/60Hz
AC200/240V ±10%; 50/60Hz

Power Consumption

50VA

Dimensions and Weight

Station Alone	10"(w) x 8.7"(d) x 4"(h); 5.5 lbs.
Station & Measuring Unit	11"(w) x 8.7"(d) x 8.5"(h); 8 lbs.
Printout	Y/M/D of measurement, measuring time, patient number; vertex distance; measured value of refractive power (AR measurement); measured value of corneal curvature; contact lens conversion value; SE value; optimum value of trial lens; eye print

Interface

Complies with RS232C standard

Standard Accessories

4 fuses (two for station; spare fuses are mounted in the spare fuse holders inside the printer cover of the station), 4 rolls printer paper (one for station), power cord, dust cover, battery, connecting cord, hand strap, neck strap, operator's manual
Carrying case, portable stand

Optional Accessories



Lightweight, hand-held unit makes automatic readings easy to acquire.

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-----0001-----
NAME : M/F
AUG/ 6/2008 4:43 PM
VD=12.00mm

<R>  S    C    A
+4.25 -0.25 59
+4.25 -0.25 59
+4.25 -0.25 59
+4.25 -0.25 59
+4.25 -0.25 59
< +4.25 -0.25 59>

mm      D deg
<R1 8.05 42.00 133>
<R2 7.54 44.75 43>
<AVE 8.05 42.00 >
<CYL -2.75 133>

<L>  S    C    A
+4.75 -0.25 172
+4.75 -0.25 169
+4.75 -0.25 169
< +4.75 -0.25 169>

mm      D deg
<R1 8.04 42.00 133>
<R2 7.54 44.75 43>
<AVE 7.79 43.25 >
<CYL -2.75 133>
    
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NIDEK ARK-30

