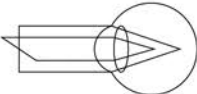


Marco ARK-Series AUTO REFRACTORS AND KERATOMETERS



SAMPLE PRINTOUTS

Measurement values are printed out using a high-speed printer. Contact lens data can be included, as can eyeprint illustrations to aid in explaining myopia, hyperopia or astigmatism to the patient.

1	-----0002-----
2	ID 12345678901234567890
3	NAME M/F
4	FEB/28/2013 16:10
5	VD=13.75mm
6	WD=16 inch
7	<R> S C A
8	- 1.75 - 0.50 173 9
9	- 1.25 - 1.00 177 9
10	- 1.25 - 1.00 5 8
11	<- 1.25 - 1.00 177>
12	<- 2.00 SE >
13	
14	TL - 1.25 - 1.00 177
15	CL - 1.25 - 1.00 177
16	- 1.75 SE
17	L. DATA
18	- 1.50 - 1.00 177
19	PS 4.5
20	ACC 0.50
21	MIN- 1.75 MAX- 2.25
22	(PS MIN 4.6 MAX 5.5)
23	<L> S C A
24	- 1.25 - 1.00 177 9
25	PD 63 N 59
26	<R> mm D deg
27	<R1 7.98 42.25 174>
28	<R2 7.65 44.00 84>
29	<AVG 7.82 43.25 >
30	<CYL -1.75 174>
31	CS 12.5
32	<R> mm D deg
33	<AVG 7.82 43.25 >
34	<CYL -1.75 174>
35	CS 12.5
36
37	NIDEK ARK-1s

1	-----0003-----
2	NAME M/F
3	FEB/28/2013 10:50
4	WD=16 inch
5	<R> S C A
6	- 1.50 - 1.00 177 9
7	- 1.50 - 1.00 174 9
8	- 1.50 - 1.00 176 9
9	<- 1.50 - 1.00 176>
10	L. DATA
11	- 1.50 - 1.00 177
12	<L> S C A
13	- 2.50 - 1.00 177 9
14	- 2.50 - 1.00 174 9
15	- 2.50 - 1.00 176 9
16	<- 2.50 - 1.00 176>
17	L. DATA
18	- 1.50 - 1.00 177
19	PD 65
20	UCVA (R 25 L 40)
21	SUBJ
22	R - 1.75 - 1.00 176
23	L - 2.75 - 1.00 176
24	BCVA (R 25 L 25)
25	LOW (R 30 L 30)
26	GLARE (R 40 L 30)
27	ADD
28	R + 2.00 VA 30 WD35
29	L + 2.00 VA 30 WD35
30	LM
31	R - 1.50 -1.00 177
32	L - 2.50 -1.00 176
33	LM ADD
34	R + 2.00 + 2.50
35	L + 2.00 + 2.50
36	<R> mm D deg
37	<R1 7.98 42.25 174>
38	<R2 7.65 44.00 84>
39	<AVG 7.82 43.25 >
40	<CYL -1.75 174>
41	CS 12.5
42	<L> mm D deg
43	<R1 7.98 42.25 174>
44	<R2 7.65 44.00 84>
45	<AVG 7.82 43.25 >
46	<CYL -1.75 174>
47	CS 12.5
48
49	NIDEK ARK-1s

1	Patient ID
2	Patient ID scanned by the optional barcode scanner or magnetic card reader
3	Vertex distance
4	Near working distance
5	AR-measured values (center)
6	S: Spherical refractive error
7	C: Cylindrical refractive error
8	A: Cylinder axis
9	Confidence index
10	AR median values
11	Spherical equivalent value
12	Printing of eye diagram
13	Thin lens data
14	Contact lens conversion value
15	AR large area measured values
16	PS (Pupil Size) measured value
17	When measurement is performed with the chart-illuminating lamp turned off during manual PS measurement, "(LAMP=OFF)" is printed out.
18	Accommodation measured values
19	MIN: AR-measured minimum value
20	MAX: AR-measured maximum value
21	(PS MIN: Pupil size minimum value, MAX: Pupil size maximum value)
22	An accommodation graph is printed out depending on the "58.ACC GRAPH PRINT" parameter setting.
23	PD (Pupillary Distance)
24	Distance PD, monocular PD, near PD
25	KM median values
26	R1: Flattest meridian
27	R2: Steepest meridian
28	deg: Corneal cylinder axis
29	AVG: Average of R1 and R2
30	CYL: Corneal cylindrical error
31	CS (Corneal Size) measured value
32	Comments: Characters and symbols can be freely entered.

1	Uncorrected VA values
2	Subjective refractive error measured values
3	An eye diagram is printed out depending on the "52.EYE PRINT" parameter setting.
4	Corrected distance VA values
5	Contrast VA values
6	Glare VA values
7	Near addition powers, near VA values, WD
8	LM values
9	These are values of the patient's own glasses measured by a lensmeter. When the following conditions are satisfied, printing is conducted.
10	The device is connected to a lensmeter and data is saved in the lensmeter or LM data has been imported from an Eye Care card.
11	Subjective refractive error measurement has been performed.
12	LM addition powers (ADD1, ADD2)



ARK-Series COMPARISON



User-Friendly Design
Tilttable Color 6.5" LCD Screen



"Marco Connect" enables the use of EMR cards or wireless data transfer



High Speed Printer with Easy Loading and Auto Cutter

ARK-Series PRODUCTS

FEATURES	Palm-ARK	M3	ARK-1	ARK-1a	ARK-1s
Super Luminescent Diode Technology	///	///	///	///	///
Automatic	///	///	///	///	///
Measurable Range -20D to +25D/Cyl 0D to +12D	///	///	///	///	///
Scenery Balloon Target Chart	///	///	///	///	///
"Marco Connect" EMR Internet Capability	///	///	///	///	///
Hand Held Portable Unit	///				
Minimum Pupil Diameter 2.6mm	///				
Automatic "Eye Tracking" Technology Y			///		
Automatic "Eye Tracking" Technology X, Y, Z		///		///	///
Minimum Pupil Diameter 2.0mm		///	///	///	///
Measurable Range -30D to +25D/Cyl 0D to ±12D		///	///	///	///
Rotary Prism Technology		///	///	///	///
Non-Contact Tonometry		///			
Peripheral Spherical Power -15 to +15D			///	///	///
Peripheral Cylindrical Power 0D to 6D			///	///	///
Auto Pupil Size Measurement 1.0 to 10.0 mm			///	///	///
Auto Corneal Size Measurement 10.0 to 14.0 mm			///	///	///
Double Ring Technology			///	///	///
Accommodation Measurement				///	///
Retro-illumination				///	///
Low Contrast Testing					///
Glare Testing					///
Visual Acuity Chart					///
Subjective Spherical Refinement					///
Compare Glasses vs. AR reading					///
Unaided Vision vs. AR reading					///
Near Vision Testing					///

ARK-Series SPECIFICATIONS



Model	ARK-1s	ARK-1a	ARK-1
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)	←	←
Minimum measurable pupil diameter	ø2 mm		
Auto keratometer			
Measurement range	Curvature radius 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) Cylindrical power 0 to ±12.00 D (0.01 / 0.12 / 0.25 D increments) Axis 0 to 180° (1° / 5° increments)	←	←
Sagittal measurement	25° each from the center (superior side, inferior side, temporal side, nasal side)		
VA measurement			
Measurement mode	Uncorrected VA, Corrected VA (distance, near)		
Measurement range	Less than 0.1, 0.1, 0.25, 0.32, 0.4, 0.5, 0.63, 0.8, 1.0, 1.25 or Less than 20 / 200, 20 / 200, 20 / 80, 20 / 60, 20 / 50, 20 / 40, 20 / 30, 20 / 25, 20 / 20, 20 / 16		
Correction range	Sphere -20.00 to +20.00 D (VD = 12 mm) (0.25 D increments) Cylinder 0 to ±8.00 D (0.25 D increments) Axis 0 to 180° (1° / 5° increments)	Not available	Not available
Vision comparison	Available with VA chart	Scenery Chart	Scenery Chart
Retroillumination image	Available	←	Not available
Accommodation measurement range	0 to 10.00 D (0.01 / 0.12 / 0.25 D increments)	←	Not available
PD measurement range	30 to 85 mm (1 mm increments) (Near point PD: 28 to 80 mm at WD = 40 cm)	←	←
Automatic Corneal size measurement	10.0 to 14.0 mm (0.1 mm increments)	←	←
Automatic Pupil size measurement	1.0 to 10.0 mm (0.1 mm increments)	←	←
Auto tracking / Auto shot	X-Y-Z directions Auto shot	←	Y direction Auto shot
Display	Tilttable 6.5-inch color LCD	←	←
Printer	Thermal line printer with easy loading and auto cutter	←	←
Interface	RS-232C (in / out), LAN, USB, Eye Care card system*5	←	←
Power supply	AC 100 to 240 V 50 / 60 Hz	←	←
Power consumption	100 VA	←	←
Dimensions / Mass	260 (W) x 495 (D) x 457 (H) mm / 20 kg 10.2 (W) x 19.5 (D) x 18.0 (H)* / 44 lbs.	←	←



Marco technologies integrate with Marco Connect software

