ARK-1s Auto Refractor/Keratometer

The only autorefractor/keratometer with GLARE TESTING. Now you can quickly assess and document vision loss due to glare.

UNIQUE FEATURES INCLUDE:

- **Glare Testing**
- **Low Contrast Screening**
- **Retro-illumination:** Reveals lenticular opacities
- **Accommodation:** Documents accommodation reserves
- **Multiple pupil zone imaging method:** Gives a reliable refraction starting point
- **Visual Acuity Chart**
- **Subjective Sphere Refinement**

MARCO

ARK-1s AUTO REFRACTOR/KERATOMETER WITH GLARE TESTING

SPECIFICATIONS

Objective refractive error measurement	Spherical refractive error	-30.00 to +25.00 D (VD = 12 mm) (0.01/0.12/0.25 D increments)
	Cylindrical refractive error	0 to ±12.00 D (0.01/0.12/0.25 D increments)
	Cylinder axis	0 to 180° (1°/5° increments)
	Minimum measurable pupil diameter	ø2 mm
	Accuracy: The accuracy specifications are based on the results of eye model testing performed in accordance with ISO10342, Ophthalmic Instruments-Eye Refractometers.	

Criterion	Measurement range	Maximum scale	Test device[a]	Tolerance
Spherical vertex power	–15 D to +15 D (Maximum meridional vertex power)	0.25 D	0 D, ±5 D, ±10 D	±0.25 D
			±15 D	±0.50 D
Cylindrical vertex power	0 D to 6 D	0.25 D	Sph: approx. 0 D Cyl: –3 D Axis: 0° 90°	±0.25 D
Cylinder axis[b] for cylinder power	0° to 180°	1°		±5°

[a] The refractive error of the test device shall not differ by more than 1.0 from the nominal value above.
[b] Cylinder axis shall be indicated as specified in ISO8429.

Subjective refractive error measurement	Visual acuity measurement	<0.1 / 0.1 / 0.25 / 0.32 / 0.4 / 0.5 / 0.63 / 0.8 / 1.0 / 1.25 <20/200 / 20/200 / 20/80 / 20/60 / 20/50 / 20/40 / 20/30 / 20/25 / 20/20 / 20/16
	Spherical refractive error	-20.00 to +20.00 D (VD = 12 mm) (0.25 D increments)
	Cylindrical refractive error	0 to ±8.00 D (Max.) (0.25 D increments)
	Cylinder axis	0 to 180° (1°/5° increments)
	Near addition power	0 to +9.75 D (0.25 D increments)
Corneal curvature radius measurement	Corneal curvature radius	5.00 to 13.00 mm (0.01 mm increments)
	Corneal refractive power	25.96 to 67.50 D (n = 1.3375) (0.01/0.12/0.25 D increments)
	Corneal cylindrical power	0 to ±12.00 D (0.01/0.12/0.25 D increments)
	Corneal cylinder axis	0 to 180° (1°/5° increments)
	The measuring range is in accordance with Code A, ISO 10343 and the measuring accuracy in accordance with Code 2, ISO 10343.	
Pupillary distance measurement	30 to 85 mm (1 mm increments) (For near vision: 28 mm to 80 mm when the near working distance is 40 cm)	
Corneal size measurement	10.0 to 14.0 mm (0.1 mm increments)	
Pupil size measurement	1.0 to 10.0 mm (0.1 mm increments)	
Accommodation measurement	0 to 10.00 D (0.01/0.12/0.25 D increments)	
Other functions	Observation/Display method	6.5-inch color LCD
	Printer	Thermal line printer with auto cutter
	Interface connectors	RS-232C: Two ports USB: One port LAN: One port
Power input	Voltage, frequency	AC 100 to 240 V ±10% 50/60 Hz
	Power consumption	100 VA
Dimensions	260 (W) mm × 495 (D) mm × 457 (H) mm	
Mass	20 kg	

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