

speedy K2

# Auto Refractometer Keratometer



# Fast auto refractometry and keratometry



Speedy-K2  
Autorefractor  
Keratometer  
provides accurate  
refraction and  
keratometry  
measurements  
in a compact  
design thanks to  
the retinoscopy  
measurement  
principle.

# Automatic, quick measurement



### ACV

ACV(Asymmetric Coefficient Value) is a numerical value used to show stability of light measurement. ACV 0 is most stable, larger value need to take caution. To reject unstable measured values caused by obstruction against measuring light such as eyelid, eyelashes, opacity and etc, ACV is useful as a guideline during REF measurement.



### AUTO2 MEASUREMENT MODE

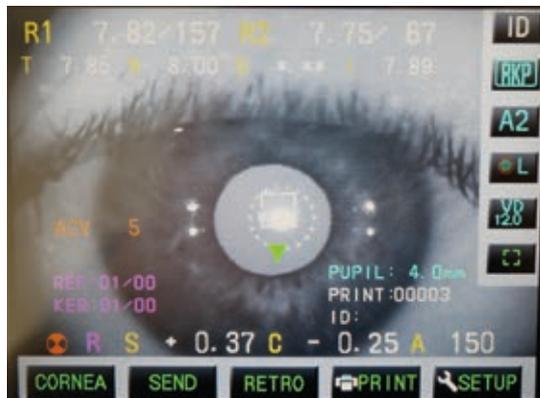
In addition to normal fogging, a more precise fogging method is possible by manually selecting A2 or preset under Setting menu to automatically activate under specific conditions. This kind of fogging is useful for reading the eyes of patients with unstable eyes, instrumental myopia or other conditions.



### AUTO PUPIL CENTER MODE

If ectopia pupillae or small pupil is detected, it will automatically activate pupil center mode to assist in taking stable REF measurement.

# Simple and stable



## ORIGINAL UNIQUE FIXATION SYSTEM

The light intensity can be changed with 3 steps. The unique fireworks picture chart enables astigmatism patients to focus on any of the meridian lines so that the patient can follow the picture. Pupil size is measured during a refraction reading, dropping light intensity automatically when the pupil diameter is smaller than 3mm.



## RETRO ILLUMINATION MODE

When measurement is unstable, opaque media such as cataracts can be detected using the monitor.



## LCD WITH 45-DEGREE TILT FOR FREE MEASUREMENT POSTURE

The LCD touch monitor can be tilted (0-45 degrees) allowing the examiner to conduct measurements from a standing or seated position.



## “OPEN EYELID” DETECTION

Automatically detects obstruction at pupil area, like eyelid or eyelashes, during measurement.

# Technical specifications

## DIMENSIONS:

WIDTH	254 mm
DEPTH	469 mm
HEIGHT	447 mm
WEIGHT	13 kg
POWER SUPPLY	AC100 - 240V 50/60Hz
POWER CONSUMPTION	40 VA

Compliance with



### Refractometry specifications

Measurement range	SPH: -20D to +23D (VD=12 mm) (AUTO/0.12D/0.25D steps)
	CYL: OD to $\pm 12$ D (0.12D/0.25D steps)
	Axis: 0 to 180° (1° increment)
Minimum pupil diameter	$\varnothing$ 2.3 mm
Vertex distance	0 and 12, 13.5, 13.75, 15 or 16 mm
PD measurement	1 to 83 mm
Fixation chart	Firework & Road: high/mid/low intensity
Pupil size reading range	2.0 to 12.0 mm

### Keratometry specifications

Measurement range	Radius curvature: 5.00 to 11.00 mm
	Corneal astigmatism: 0.00D to 12.00D
	Axis: 0 to 180
Measurement area	Center: $\varnothing$ 3.2 mm (R8.0 mm)
	Peripheral: 25° - $\varnothing$ 6.8 mm (R8 mm)
Corneal size measurement range	0 to 16.0 mm

### Station features

Data storage	50 persons (100 eyes)
Display	5.7-inch color LCD touch panel (tilt 0 to 45°)
Interface	US232C, USB, IR



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