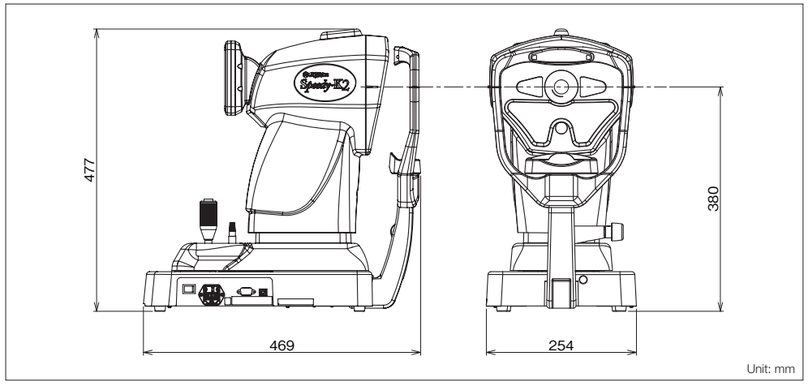
Dimensions



Unit: mm

Specifications

Refractometry	
Measurement range	SPH: −20.00D to +23.00D (AUTO / 0.12D / 0.25D increments)
	CYL: 0D to ±12.00D (0.12D / 0.25D increments)
	Axis: 0 to 180° (1° increments)
Minimum pupil diameter	ø2.3 mm
Vertex distance	0 and 12, 13.5, 13.75, 15 or 16 mm
PD measurement	1 to 83 mm
Fixation chart	Fire work & Road; high/mid/low intensity
Pupil size reading range	2.0 to 12.0 mm
Keratometry	
Measurement range	Radius curvature: 5.00 to 11.00 mm
	Corneal astigmatism: 0.00D to 12.00D
	Axis: 0 to 180°
Measurement area	Center: ø3.2 mm (R 8.0 mm)
	Peripheral: 25° ø6.8 mm (R 8.0 mm)
Corneal size measurement range	0 to 16.0 mm
General	
Data storage	50 persons (100 eyes)
Display	5.7-inch color LCD touch panel (tilt 0 to 45°)
Interface	RS232C, USB, IR
Dimension	254 (W) x 469 (D) x 447 (H) mm
Weight	Approx. 13 kg
Power supply	AC100 - 240V 50/60Hz
Power consumption	40VA

Print sample

```
-- ID:000000002 --
-- No.00001 ------------
        '14.01.22  8:22AM
Name:
VD:12.0  PD:63.5 CHART:M
-REF-
[R]    SPH     CYL    AX
     - 0.62  - 0.62  130
     - 0.50  - 0.62  134 AQ
     - 0.75  - 0.50  131 AQ
     - 0.75  - 0.50  129 AQ
     - 0.62  - 0.62  129

   * - 0.62  - 0.62  130  10
     (S+C/2 = - 0.87)
       x: 4.4   y: 4.3
[L]    SPH     CYL    AX
     - 2.00  - 0.50   23
     - 2.00  - 0.50   25
     - 2.00  - 0.50   33
     - 2.00  - 0.50   32
     - 1.75  - 0.50   34

   * - 2.00  - 0.50   32   9
     (S+C/2 = - 2.25)
       x: 3.9   y: 3.8
-KER-
[R]    R1      R2    AX1 AX2
   *  8.04   7.81  159   69
            mm      D    deg
      R1   8.04 42.00  159
      R2   7.81 43.25   69
      AV   7.92 42.62
      CYL       - 1.25  159
[L]    R1      R2    AX1 AX2
   *  8.18   7.93   14  104
            mm      D    deg
      R1   8.18 41.25   14
      R2   7.93 42.50  104
      AV   8.05 41.87
      CYL       - 1.25   14

-KER(PERI)-
[R]          mm      D
     H    8.02 42.12
     V    7.83 43.12
 (25°)
          mm      D
     T    8.18 41.25
     N    8.12 41.62
     S    8.11 41.62
     I    7.96 42.37
     E(H ) 0.475
     E(V ) 0.591
     E(AV) 0.544
[L]       mm      D
     H    8.17 41.25
     V    7.94 42.50
 (25°)
          mm      D
     T    8.32 40.62
     N    8.35 40.37
     S    8.26 40.87
     I    8.17 41.25
     E(H ) 0.520
     E(V ) 0.676
     E(AV) 0.610
-R Cyl-
[R]      CYL    AX
       + 1.00  173
[L]      CYL    AX
       + 0.87    4

RIGHTON SPEEDY-K2
```

ISO13485

UL Classified.
See complete marking on product.

WARNING: To ensure correct usage, read all manuals carefully before using equipment

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer.
The information in this brochure is correct as of September 2013.

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Righton

Auto Refract-Keratometer

Speedy-K2

Made in JAPAN

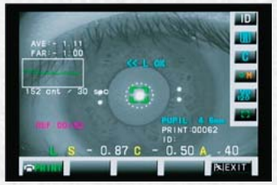
Simple and stable, with the fastest measurement

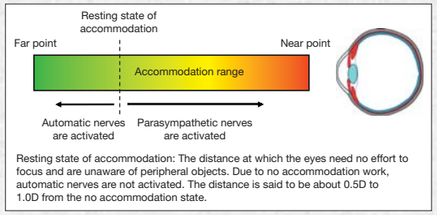
Righton original retinoscopy measurement principle achieves extremely fast auto REF/KER measurement

Measurement speed is 30% faster than the Speedy-i/K. (REF: 125 ms/7 times, KER: 260 ms/1 time)
Measurement begins immediately after alignment. In addition to KER/REF continuous measurement, auto and continuous peripheral kerato measurement are also conducted. The pupil distance is automatically detected. Each measurement can not only be manually operated but also set to start by a single joystick operation for high-speed measurement.

The resting state of accommodation function NEW

Speedy-K2 displays spherical equivalent values as graphs that are continuously measured every 30 seconds.
The resting state of accommodation is automatically calculated and printed out.





Resting state of accommodation: The distance at which the eyes need no effort to focus and are unaware of peripheral objects. Due to no accommodation work, automatic nerves are not activated. The distance is said to be about 0.5D to 1.0D from the no accommodation state.

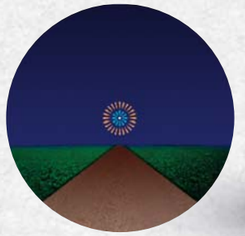
A2 Selective fogging method NEW

In addition to normal fogging, more precise fogging is possible by selecting A2 using the measurement mode key.
This kind of fogging is useful for reading the eyes of patients with unstable eyes etc.

Various auxiliary functions for stable measurement

Righton original unique fixation system NEW

The light intensity can be changed with 3 steps. H (high) is added to measure unstable pupils (conventional H is the same as M with K2).
The unique fireworks picture chart enables astigmatism patients to focus on any of the meridian lines so that the patient can follow the picture.
When the pupil diameter is smaller than 3mm, the light intensity drops automatically.



Pupil size measurement

Pupil size can be measured during a refraction reading to allow for differences in eye pigmentation.

Auto Quick mode and manual switch mode

Automatically starts even faster, a useful feature for restless patients, such as children and patients unaccustomed to treatment.
When slower measurement is needed for any reason, manual switch mode is available by setting Auto Start to off, then measurement starts only when the joystick's button is pressed.

Cornea diameter can be also measured (0 – 16 mm)

Auto calculation of residual astigmatism

During REF/KER measurement, residual astigmatism is automatically calculated and printed out. This is necessary for astigmatic contact lens prescriptions and astigmatic IOL.

Retro Illumination mode

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

Easy-to-operate 5.7 inch color LCD touch panel NEW

Intuitive operation
Easy input of patient ID

Touch panel SW function
① Easy input of patient ID
② Easy switching between REF, KER, R/K, R/K/P and K/P
③ Easy switching of measurement modes
④ Changes fixation chart brightness
⑤ Changes the VD value
⑥ Pupil center measurement
⑦ Cornea measurement
⑧ Data sending
⑨ Enters retro mode
⑩ PRINT
⑪ Setting

LCD with 45-degree tilt for free measurement posture NEW

The LCD can be tilted (0-45 degrees), allowing the examiner to conduct measurements from a standing or seated position.
This allows the examiner to adjust instruments while checking the monitor.

Easy changing of printer paper

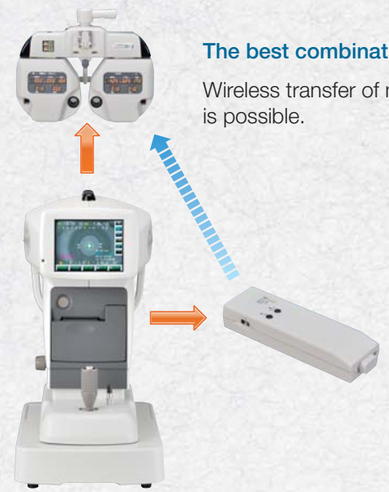
To change printer paper, simply insert the paper roll and close the cover.

Low power consumption, lightweight and efficient design

Power consumption: 40VA (approx. 35% less than conventional models)
Weight (main body): 13 kg (approx. 10% lighter than conventional models)
Printout content is re-aligned to save printing paper.

Save measurement data of 50 patients

REF/KER measurement data of up to 50 patients (100 eyes) can be saved.



The best combination for Remote Vision RV-II

Wireless transfer of measurement data with RV-IIs is possible.

i-Media

With i-Media, data communication with devices in other rooms is possible.