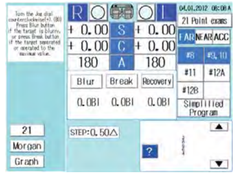
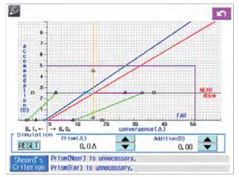
## 21-point eye examination

Righton's unique use of the 21-point, eye exam (#7 - #21) means it can generate an easy to understand visual performance graph.



**World's first** Wearable simulation with prism correction amount and ADD data is possible.

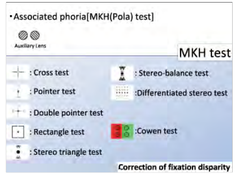


Visual performance graph

## "Speedy" program World's first

Righton's time-saving, original high-speed subjective ophthalmic test program using an EXC cross cylinder

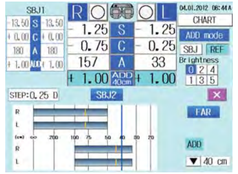
## MCH (formerly MKH) POLA-test



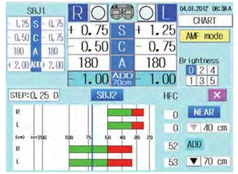

Binocular eye exam in ordinary conditions using polarizing charts; suitable for patients who have difficulty watching 3D images

## ADD power correction program World's first

By syncronizing with Speedy-i, the best suited prescription, or ADD power, can be easily generated by analyzing a patient's accommodation microfluctuation and range.



ADD mode

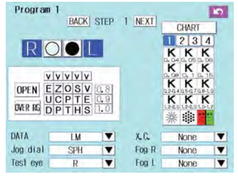


AMF (Accommodation Microfluctuation) mode

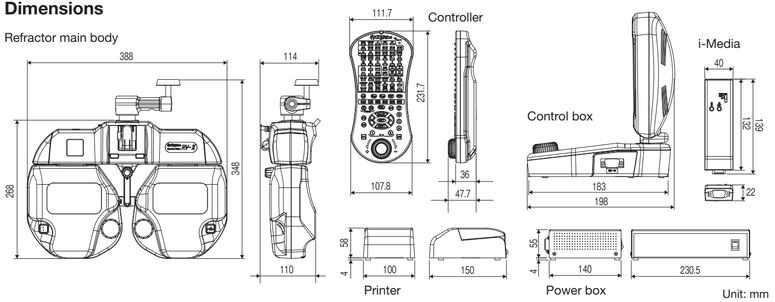
## Standard program
## Basic program

## Program customization

Examiner can edit or customize the standard and basic programs.



## Dimensions




## Specifications

| Remote Vision RV-II | | | |
|---|---|---|---|
| Power measurement | Spherical lens power | −34.50 - +32.00D | |
| | | 0.25D step (0.125D/0.25D/1D) | |
| | Cylindrical power | −7 - +7D | |
| | | 0.25D step (0.25D/1D) | |
| | Cylinder axis | 0 - 180° | |
| | | 5 steps (1°/5°/45°) | |
| | Prism power | 0△ - 20△ | |
| | | 0.5△ step (0.25△/0.5△/1△) | |
| Cross cylinder | | Auto cross cylinder : ±0.25D | |
| | | Jackson cross cylinder : ±0.25D/±0.5D | |
| Auxiliary lens | | Left | Right |
| | | Open | |
| | | Occlude | |
| | | Retinoscope lens +1.5/2.0D | |
| | | ADD cross cylinder ±0.5D | |
| | | Maddox (red): vertical | Maddox (red): horizontal |
| | | Polaroid: 135° | Polaroid: 45° |
| | | Polaroid: 45° | Polaroid: 135° |
| | | Prism separation: 10△BI | Prism separation: 6△BU |
| | | Prism separation: 3△BD | Prism separation: 3△BU |
| | | Filter: green | Filter: red |
| | | PD cross | |
| | | Pinhole φ1.2mm | |
| | | FOG | |
| PD range | | 46 – 80 mm (Right/Left) | |
| | | 0.5 mm step (0.1/0.5/1 mm) | |

| | | |
|---|---|---|
| Data storage | Auto refractometer | Far/Add |
| | Lensmeter | Far/Add |
| | Plano (V.A.) | Far/Near |
| | Subjective | Far1/Near |
| | | Near1/Near2 |
| | | Add1/Add2 |
| Program | Program 1 (standard program)<br>Program 2 (basic program)<br>Speedy program<br>Only with control box<br>21-point eye examination (steps #7 - #21)<br>MCH Pola test<br>ADD power correction program | |
| Dimensions (W) x (D) x (H)<br>Weight | Refractor main body: 388 × 110 × 268 mm<br>5 kg | |
| | Power box: 140 × 59 × 230.5 mm<br>1.1 kg | |
| | Control box: 200 x 183 x 218 mm<br>2 kg | |
| | Controller: 111.7 x 47.7 x 231.7 mm<br>300 g | |
| | Printer: 150 x 62 x 100 mm<br>600 g | |
| | i-Media: 139 x 22 x 40 mm<br>100 g | |
| Input voltage | AC 100V-240V, 50/60 Hz | |
| Power consumption | 80VA | |

ISO 9001 ISO 13485 BUREAU VERITAS Certification

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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Printed in Japan (1309-03)TI

Righton

Refractor

# Remote Vision RV-II

Made in JAPAN

# Righton's unique face-to-face, high-precision and reliable selective refractor system

- High-precision lenses and wider measuring range (-32D to +33D)
- Hand-held remote control unit and main body with crystal clear LED display
- Wide space between lens chambers allows easier view of patient's face
- Easy-to-recognize auxiliary lens indicator
- Ideal 36° field of view allows patient's eye point to be fixed with less accommodation
- Main body is 24% smaller than conventional model
- 16% faster lens changing time and 26% faster initialization than conventional models
- Selectable refractor head (with or without LED)
- Table control unit is also available (can be used in combination with hand-held remote control unit)

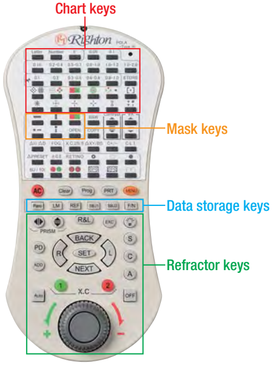
## Refractor (with LED)

Hand-held wireless remote control unit enables control of RV-II from 8 meters away, allowing operator to point directly to chart contents.

## Hand-held wireless remote control allows freedom of use

Remote control unit offers individual keys for control of both refractor and charts. Using chart keys enables direct control of chart indicators.

- Standard program
- Basic program
- "Speedy" Program (time-saving program)



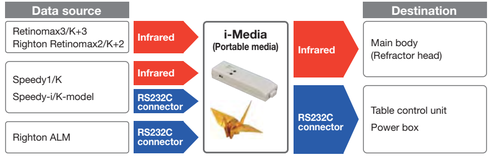

## Various data storage options

| | | |
|---|---|---|
| Auto Refractometer | Far, Add **(Speedy-i measurement data)** | World's first |
| Lensmeter | Far, Add | |
| Plano (V.A.) | Far, Near | |
| Subjective | Far 1, ADD 1<br>Far 2, ADD 2 | **Near 1, ADD 1**<br>**Near 2, ADD 2** |

## Near-point illumination with 5-step light intensity control

## Data transfer by i-Media (option) New

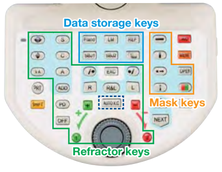
Barrier FREE data communication by utilizing Infrared and RS232C ports. i-Media is capable of communicating with most of the Righton's conventional devices.




## Touch type table control unit

Can be used with both types of refractor or in combination with hand-held remote control unit

- 21-point eye examination
- MCH (Pola) test
- ADD power correction program




Keys and functions are the same on the hand-held remote control unit

## Refractor (without LED)

## Printer

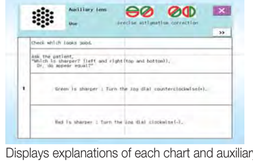
Compact and easy-to-use printer separate from power box

## Space-saving compact power box

Power box is 40% smaller than the conventional model and has a power consumption of only 80VA.

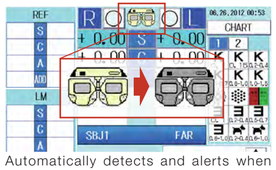
## New functions available for the table control unit

### Help functions



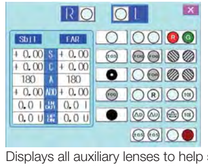
Displays explanations of each chart and auxiliary lens, Q&A and examination methods in order to provide advice for ophthalmic examinations.
(Available languages: English, Italian, German, Japanese)

### Forehead detector



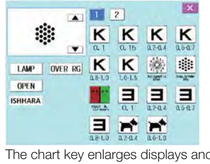
Automatically detects and alerts when forehead is removed from refractor.

### Auxiliary lens control display



Displays all auxiliary lenses to help speedy selection and changeover of lenses.

### Chart key display



The chart key enlarges displays and indicates functions.

### Print sample

# Flexible combinations to suit all needs, budgets and locations

Variations of the RV-II system can be made using a combination of refractor (with/without LED), remote control unit, table control unit and printer depending on needs, budget and installation location.

**1** Refractor (with LED)
Compact power box
Hand-held remote control unit
Printer

**2** Refractor (without LED)
Compact power box
Table control unit
Printer

**3** Refractor (with LED)
Compact power box
Table control unit
Printer

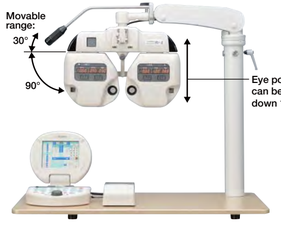
**4** Refractor (with LED)
Compact power box
Hand-held remote control unit
Table control unit
Printer

## Special table top (option)

Budget and space-saving solution
Can be used with the refractor on a regular power table.

### Installation sample

Table size: 300 (W) x 540 (D) mm or larger
Maximum loading weight: 5.5 kg




## Installation on general refractor unit

## RV-II communication method

- All Righton Speedy series
- Retinomax 3 series
- RV-II remote control unit (including combined remote control units with Righton LCD and chart projector)

Infrared wireless → Main body (Refractor head)

Wired → Power box

- Table control unit
- Printer (with connectors for remote control unit and table control unit)
- Righton auto lensmeter

Wired → Power box

Wired → PC