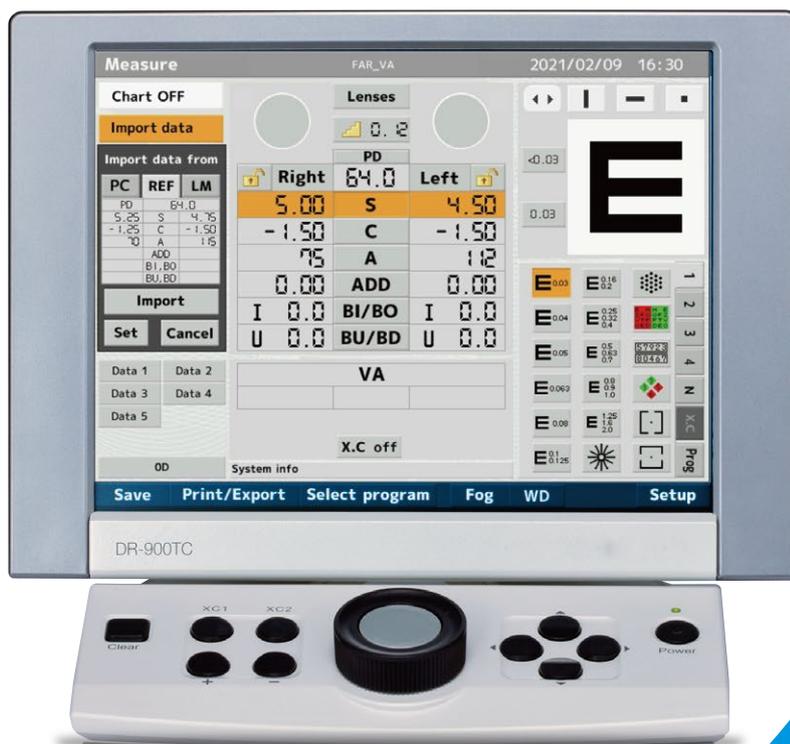


DR-900

Digital Refractor



About Us

Rex + Max = Rexam

Rexam, which means 'the king of the kings', is a respected and reliable brand.

Rexam is a Japanese company with a celebrated 60 year history. With over 3,000 employees worldwide, Rexam manufacture a wide range of products for various industries; from factory automation, automobiles and air conditioning systems, to beer and ski boots.

Since 1986, Rexam has manufactured various high quality products for leading brands in the eye care industry, including SHIN-NIPPON. Rexam had developed and manufactured products for SHIN-NIPPON since 1993 and in 2014 the company took over the SHIN-NIPPON brand.

We will be bringing high quality ophthalmic equipment to a global market. By combining precision engineering with industry leading innovation and experience in mass production, Rexam produce unique products to support eye care specialists across the world.

Quality in vision care, we are Rexam.



SHIN-NIPPON

SHIN-NIPPON by Rexam

Rexam

Rexam

Quality in vision care

Proudly  Made in Japan

Message from Engineer

Rexam DR-900 Digital Refractor has a combination of multiple sets of lenses & filters built in the main refractor head.

Our engineering team develops hardware & software that delivers speedy lens transition. Mechanical movement is swift & quiet.

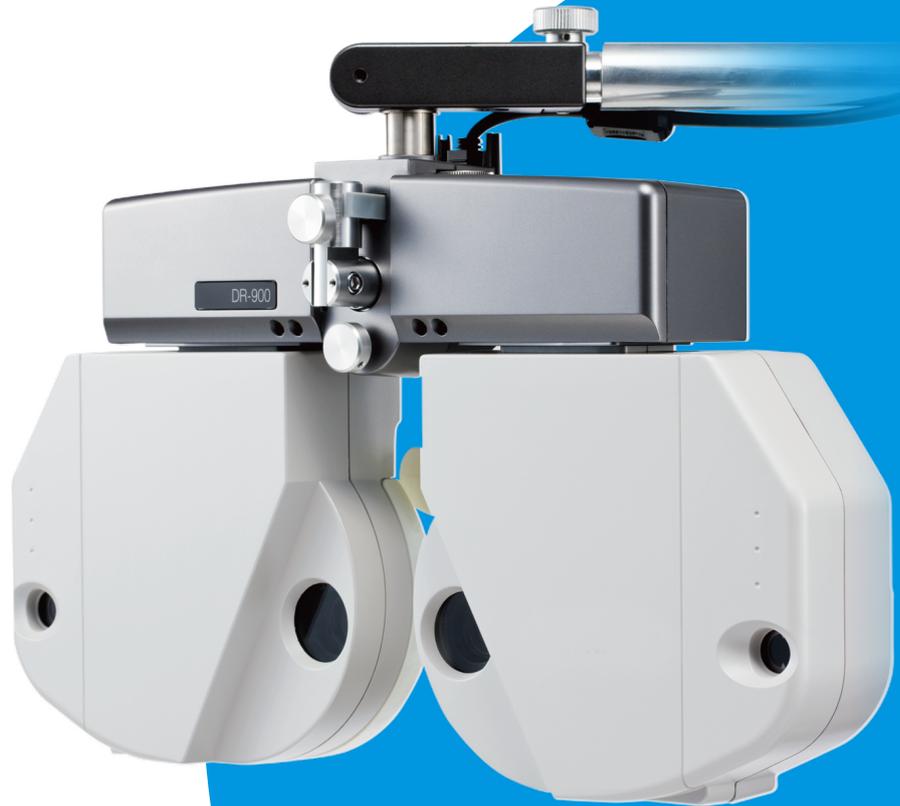
With much studies from different international refraction practices, DR-900 smart intuitive user-friendly interface enhances the practitioner's experience, resulting in patient's satisfaction.

We hope that you enjoy a smooth and comfortable subjective refraction with our DR-900.

Y.K.
Research & Development Dept.
May-2017

Subjective refraction with the DR-900

Rexxam Refraction System - high quality and precision optics meet stringent standards in eye refraction. Its good mechanical design (Sequential-Control Lens Rotating Units) delivers swift and quiet mechanical transition. The smart-compact refractor head & 10.4 inch full colour touchscreen controller will surely help to maximise the practitioner's refraction test experience.

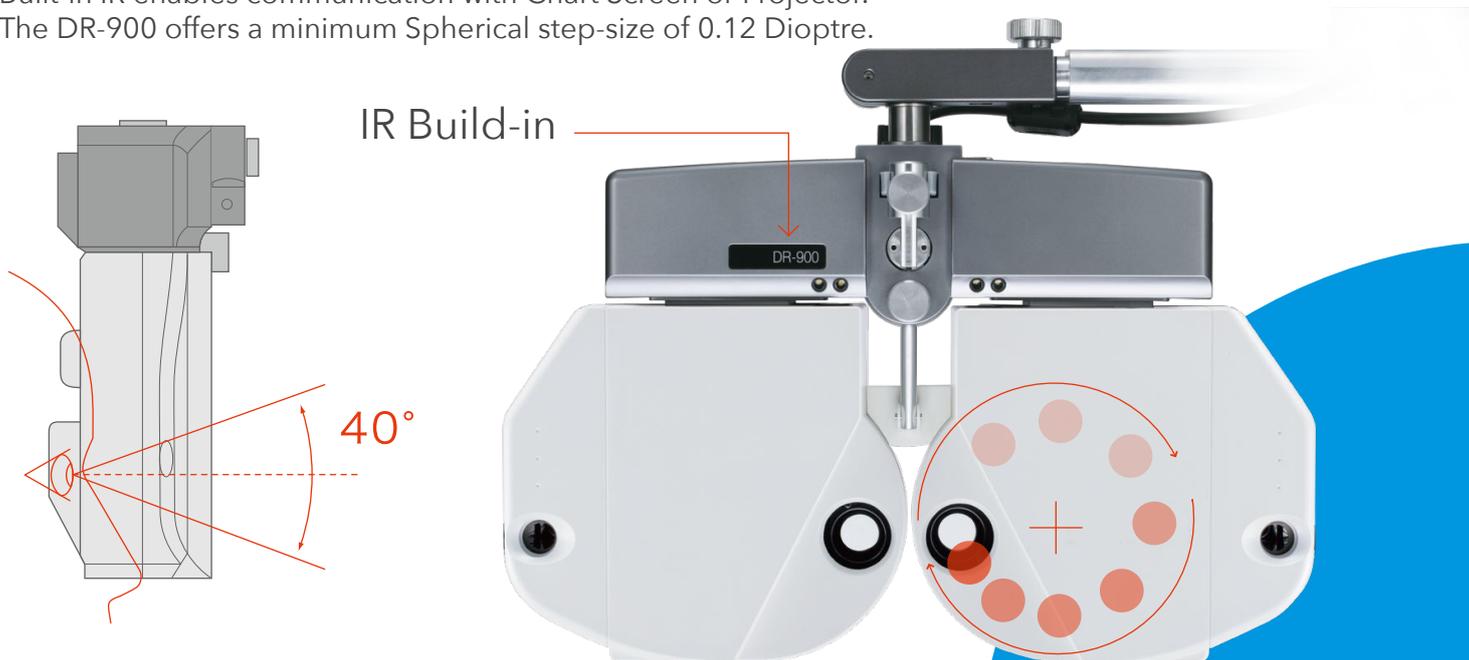


- High speed silent head
- Wide field of view
- Built-in IR connection to chart screen
- Detachable Face shields
- Dimmable near vision LED illumination
- 10.4 inch full colour touch screen controller
- 21-step subjective Eye Exam routine
 - Auto-cross cylinder
 - Spatial Frequency Contrast Sensitivity test
 - Linear and circular polarization Auxiliary lenses



Speedy & Quiet Refractor Head

Thanks to our high precision optical mechanism that delivers speedy, smooth and quiet motion ensuring accurate and comfortable examination. Our compact refractor head has a 40° field of view coverage. Built-in IR enables communication with Chart Screen or Projector. The DR-900 offers a minimum Spherical step-size of 0.12 Dioptre.



Safe and Clean Refraction

Soft and light materials are used on the head-rest and face-shields. These parts are easily detachable to disinfect or to clean. A Breath Shield is available as an option to enhance safe distancing measures when practitioner needs to manually adjust the refractor head.





Near vision chart / dimming LED



Test for Near Vision for presbyopia and balance test are possible by means of attaching the Near Vision Chart to the DR-900. The incorporated double LED illumination on the refractor head is dimmable from 25%, 50%, 75% and 100% to suit various refraction room light conditions.

Auto-convergence / Auto near PD

The DR-900 refractor head will automatically converge to the appropriate Near PD angle when the desired reading distance (30, 40, 50, 60 & 70 cm) is selected.



Simple and easy operation

The DR-900 dedicated 10.4 inch full colour touchscreen offers a clear overview of examination data, selection of test chart and various test methods. The controller keyboard with jog dial and buttons enables the practitioner to perform a refraction test by simply touching on the LCD screen, Jog dial or buttons.



10.4 Inch large LCD colour display

Easy and intuitive operation

Touch screen, Jog dial & button operation

Multi display interface design

The multi display interface design divides clearly the chart information, measurement information and import / memory areas, making operating the DR-900 intuitive and improving the workflow and examination time.

Imported data information

Measurement Information
Basic Operation Screen

Chart Information

Memory data sets

Menu Bar

Chart Display Status
Displays the chart currently selected.

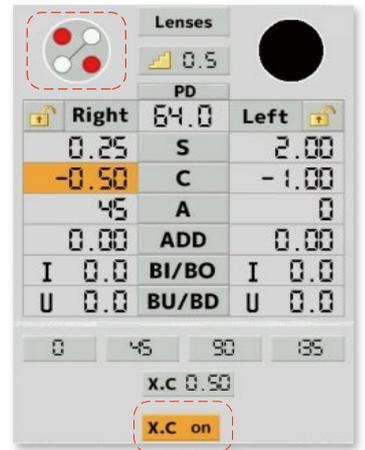
Chart Selection Screen
A chart screen that is easily viewable and selectable during measurement.



Jog Dial Auto Input Cross Cylinders

The DR-900 has Jackson Cross Cylinder power of ($\pm 0.25D$) & ($\pm 0.50D$) as well as Auto-Cross Cylinder ($\pm 0.25D$).

The Jog dial has a 2-in-1 function that enables the practitioner to toggle the X-CYL function (XC1 or XC2) whilst the Enter Key allows the practitioner the choice to [Select], [Adjust] or [Enter] function. Cylinder/Axis is automatically changed according to patient's visual preference. Spherical Equivalent is automatically compensated whenever 0.50D Cylinder is changed during JCC test.



Built-in printer with auto-cut function

The built-in thermal printer is conveniently located behind the controller, with auto-cut function.

Convenient tilting display

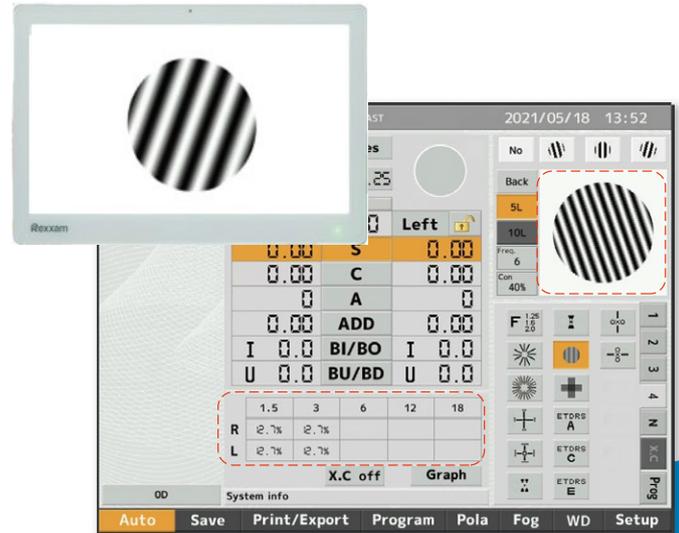
The touchscreen flexible tilt display ($20^\circ \sim 80^\circ$) enables the user to operate in either sitting or standing positions.



Spatial Frequency Contrast Sensitivity Test

The DR-900 offers the Spatial Frequency Contrast sensitivity test, which can be binocularly and monocularly examined. 10 contrast levels are available at 5 levels of cycles per degree. The test results are shown in a graph and can be exported and printed.

*only available in combination with Rexam LCD-1000/1000P.



Binocular examinations

A full set of pre-defined tests are available to perform any kind of binocular examinations, such as phoria, convergence, accommodation, etc.

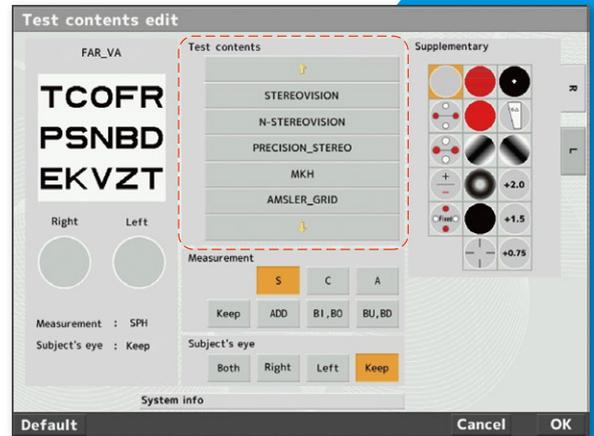
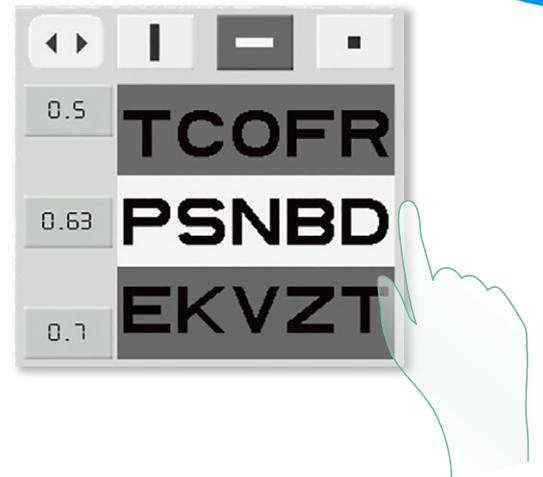


Chart Masking and Randomization

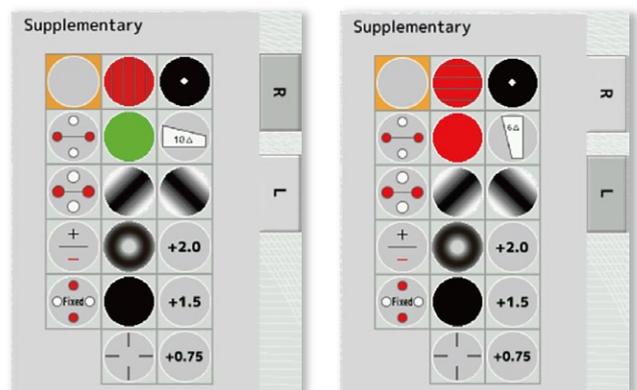
You can mask all available optotype charts (horizontal, vertical & single letter). The mask will stay even when the user is scrolling through different Visual Acuity charts. The optotype chart can be randomly changed with a simple push of the touch screen.

*only available in combination with Rexam LCD-1000/1000P



Versatile set of Auxiliary lenses & filters

The DR-900 Digital Refractor - set of supplementary accessories including linear or circular polarisation filters, red or green filters, Maddox_H and Maddox_V filters to compliment subjective examination.





Streamline Your Refractions with DR-900 PC Controller Software

Take control of your DR-900 like never before! With the optional DR-900 PC Controller Software, you can operate the device directly from any Windows laptop or desktop—eliminating the need for the DR-900 physical controller. Boost your workflow, improve connectivity, and enjoy unmatched operational flexibility—all from your computer.

Remote Operation

Take full command of the refraction process from any point within the exam room. Enhance your workflow, maintain natural patient interaction, and experience a new level of convenience during every examination.

Seamless PC Integration

Operate the DR-900 PC Controller Software directly from your Windows computer. Enjoy a clean, intuitive interface that feels familiar while offering powerful control and precision at your fingertips.

Flexible Control Modes

Effortlessly transition between manual and computer-guided operation. Whether you prefer hands-on adjustments or streamlined digital control, the DR-900 PC Controller Software adapts to your working style.

Enhanced Workflow Efficiency

Accelerate your daily refraction routine with rapid data input and customizable keyboard shortcuts. Simplify every step, boost productivity, and focus more on delivering an exceptional patient experience.



DR-900



PC Controller Software converter



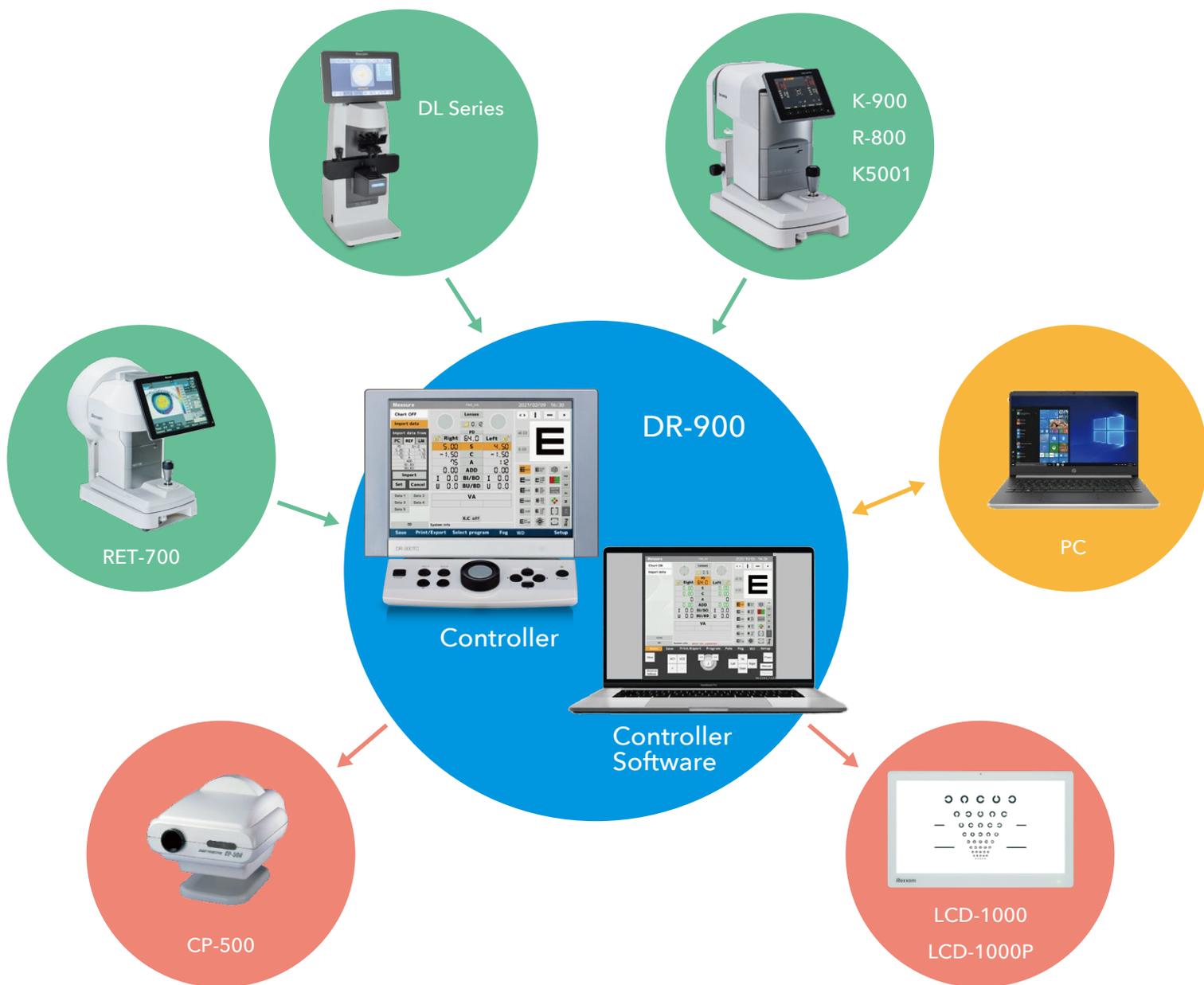
Controller



Windows Computer

DR-900 Compatibility & Connectivity

The DR-900 Digital Refractor System can communicate with various Rexam products including Auto-Refractometers, Digital Lensmeters and Ref-Topographer, where data can be exported to the DR-900 automatically or manually. By one touch on the [Set] button on the DR-900 touchscreen panel, objective data is instantly sent to the refractor head. The save function enables the practitioner to test or show patient's current or new prescription for confirmation. DR-900 can also communicate with Rexam LCD Chart or Chart Projector via the LCD touchscreen control function.

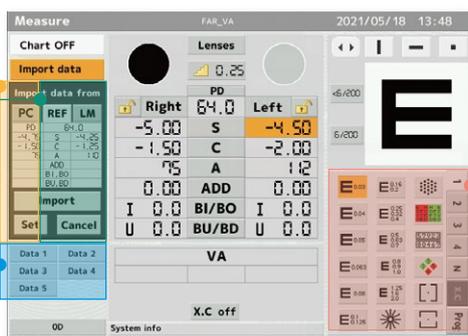


Import data

Data from PC, Refractometer and Lensmeter can be imported or manually entered.

Memory function

Up to 5 data sets can be memorised and compared with each other. With just one push of the button "OD", selected data can be compared with unaided vision.



Full integration

Rexam's chart screen LCD-1000 series as well as Rexam's chart projector CP-500 are seamlessly integrated into the DR-900 controllers user interface.

Chart selection and layout can be customised and saved to 3 different users profiles.

The Power of Precision Fully Digital, Fully Connected.





Spherical	Range	-28.75D ~ +27.25D
	Step	0.12 / 0.25 / 0.50 / 1.00D
Cylinder	Range	0D ~ ±6.00D
	Step	0.25 / 0.50D
Axis	Range	0 ~ 180°
	Step	1° / 5° / 15°
PD	Range	48.0 ~ 80.0 mm
	Step	0.5 / 1.0 mm
Prism	Range	0 ~ 20 Δ
	Step	0.1 / 0.5 / 1.0 Δ
Prism Axis	Range	0 ~ 360°
	Step	1° / 5°
Vertex Distance	12, 13.75, 16, 18mm	
Auto Convergence	Near point distances: 30 / 40 / 50 / 60 / 70 cm	
Cross Cylinders	Auto Cross Cylinder (±0.25D)	
	Jackson Cross Cylinders (±0.25D & ±0.50D)	
Auxiliary Lenses	P.D	
	Occluder	
	Foraminous board (Φ1.0mm)	
	Polarization filter (45° / 135°)	
	Red Maddox (right eye : horizon, left eye : vertical)	
	R/G filter (right eye : red filter, left eye : green filter)	
	Dispersing prism (right eye : 6ΔBU, Left 10ΔBI)	
	Lens for retinoscope (+0.75D / +1.50D / +2.00D)	
	Circularly polarized filter	
Printer	Thermal line printer with automatic cutter.	
Monitor	10.4 inch LCD touch monitor	
Size	Head	385 ~ 417mm(W) × 112mm(D) × 308mm(H) approx. 5.3kg
	Controller	272mm(W) × 272mm(D) × 204mm(H) approx. 2.5kg
	Relay box	326mm(W) × 119mm(D) × 83mm(H) approx. 2.4kg
Power	Power Voltage	AC 100 - 240 V , 50/60Hz
	Power Consumption	90 VA

Included Items

- RS-232C communication cable × 2
- Printer roll paper
- Spare fuse
- Near point chart / holder / bar
- Dust cover

Design and specifications are subject to change without prior notice.

Manufacturer



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Kagawa factory

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