

DTY Optical

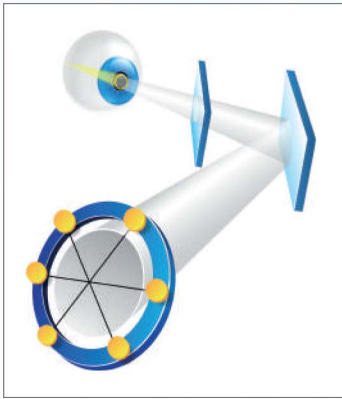
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SMART RK[®] 11

Auto Refracto Keratometer





Ophthalmic System

The light reflected from the retina and passed through the cornea is divided into six rays, using separation filter and prism, in order to measure the refractive power of each one, increasing the accuracy of data.

Wide Range of Measurement

The measurement of refractive power range from $-30.00D \sim +25.00D$. This allows measuring a patient suffering from a severe myopia.





Bluetooth

Bluetooth network allows the Medizs Smart Series users to handle all the optometry process with one single application. Users can control the chart and phoropter with a Smart Pad (Android and iOS) and all the data are sent to the application for effective and efficient test.

We try our best to reflect our valued customers' demand through continuous updates in order to provide the most comfortable environment.

Extremely Rapid Measurement & Highly Accurate Data



Supports various modes of measurement

Various measurement modes, such as Refractometry (REF), Keratometry (KER), Contact Lens Base Curve Measurement (CLBC), Peripheral Keratometry (PK), and Pupil/Iris diameter measurement (SIZE), are supported.



Automatic Vertical Tracking of the Pupil

The automatic vertical tracking function allows the users to locate the exact center of pupil easily and rapidly.

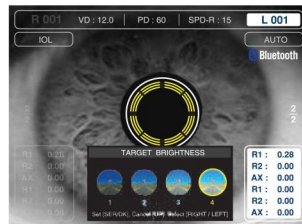


Effective Management of Measurement Data

All measurement data are sent directly to the EMR of our application via Bluetooth. This allows an effective and efficient data management.

Iris / Pupil Size Measurement

The reliability of the examination can be raised by using Size Mode to measure the diameter of the iris and pupil from 2.5mm up to 13mm.



Measurement of Corneal Periphery

By measuring cornea's up, down, left, and right side of the curvature through PK mode, user can prescribe the most suitable contact lens to the patient.



Illumination Sensor

The sensor automatically detects the brightness of the room and compensates the measurement result in order to provide the best environment for examination.

IOL Mode

Patients with intraocular lens (IOL) and cataract can be measured using IOL mode.



Target Image Brightness Control

Four levels of target image brightness control feature help the measurement of a patient with minimal size pupil in a favorable environment.



Data save

Autosave feature, which saves the previous 10 test records of both eyes, allows much easier data management.



Convenient PD Measurement

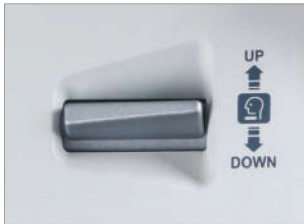
PD value can be easily obtained using the PD ruler located on the lower base.
/ Patent No. KR10-1134108



Jog Dial

Jog dial reduces the selection steps and allows an easy operation.

RK-11 Specifications



Automatic Chinrest with Adjusting Mechanism

The location of chinrest can be easily shifted using the UP&DOWN button. This allows the user to perform quicker measurement.



Multi Levels Locking System

The multi levels locking system allows the users to lock the body according to their preference.
/ Patent No. KR10-1111393



Gun-Type Joystick

The ergonomically designed gun-type joystick provides a comfortable grip and allows a fast measurement.

Measurement Mode

RK mode	Continuous Refractometry and Keratometry
REF mode	Refractometry
KER mode	Keratometry
CLBC mode	Contact Lens Base Curve Measurement
PK mode	Peripheral Keratometry(Curvature of Corneal Periphery)
Size mode	Pupil Size Measurement

Refractometry

SPH [Sphere Power]	-30.00 ~ +25.00D [When VD=12mm, Step: 0.12/0.25D]
CYL [Cylinder Power]	0.00 ~ +/-10.00D [Step: 0.12/0.25D]
AXIS	1° ~ 180° [Step: 1°]
VD [Vertex Distance]	0.0, 10.0, 12.0, 13.5, 15.0
PD [Pupil Distance]	10 ~ 85mm
Minimum Pupil Diameter	2.5mm

Keratometry

Corneal Power	33.00 ~ 67.50D [Step: 0.12/0.25D]
Corneal Astigmatism	0.00 ~ -15.00D [Step: 0.12/0.25D]
Radius of Curvature	5.0 ~ 10.2mm [Step: 0.01mm]
AXIS	1° ~ 180° [Step:1°]
Corneal[Pupil] Diameter	2.5 ~ 13.00mm [Step: 0.01mm]

Type

Smart RK-11	RS - 232 Communication
Smart RK-11B	Bluetooth Communication

Storage Memory

Maximum 10 test results [per L/R eye]

Hardware

Internal Printer	Thermal line printer
Power Saving	3min / 5min / 10min
Monitor	6.5 inch color TFT LCD [LED type]
Power Supply	AC 100V ~ 240V, 50/60Hz [Free Voltage]
Power Consumption	35~65VA
Dimension (mm)	260[W] X 570[D] X 440[H] / 10.2[W] X 22.4[D] X 17.3[H]inch
Net Weight	16kg / 35.3lbs

Above specification and design may be altered without notice.



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