



**GOOD DESIGN  
AWARD 2011**

Auto Ref-Keratometer ACCUREF K-900



Cool design & User friendly!  
This is new "SHIN-NIPPON" standard.

Auto Ref-Keratometer/Refractometer

**ACCUREF**  
**K-900/R-800**

# Introducing our new Auto Ref-Keratometer & Auto Refractometer!!

## In the pursuit of quality and ergonomics, the highest

## Slim, Compact & Stylish Design

A new flat screen monitor with a beautiful graphics display and excellent visibility. Sophistication contained within a simple and compact body design.

In the pursuit of ergonomics, minute attention to detail has been paid to materials, texture and finish in order to ensure superb operability.

At last, a solidly reliable optical unit. Focus on high quality for each and every component has resulted in the creation of the Auto Ref-Keratometer that will set the standard for the new generation.

### Feather-touch sensor button

The feather-touch sensor button used to interface with the screen enables sensitive and accurate operation.



### Newly designed optical unit with further improved accuracy.

The newly designed optical unit allows measurement of the minimum pupil diameter up to 2.0 mm and high-accuracy measurement. Useful function for actual measurement such as display of reliability warning indicator has been added.



## ACCUREF K-900

When all setting items are enabled

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz

Message Area

No. 00001

NAME 2011 11 22

14:30

Date & Time

VD=12

IOL Mark

<R> SPH CYL AX PPS

- 3.87 -0.75 172 5.4

Photopic Pupil Diameter

- 3.87 -0.75 170 5.3

Reliability Warning Indicator

- 3.87 -0.62 174 5.4

Ref Value

- 3.87 -0.75 172 5.4

Ref

Scotopic Pupil Diameter

SPS 7.3

Ref Representative Value

<R> mm D AX

R1 8.43 40.00 9

R2 8.21 41.12 99

AVE 8.32 40.62

CYL -1.12 9

Kerato Value

R1 8.43 40.00 10

R2 8.22 41.12 100

AVE 8.32 40.50

CYL -1.12 100

R1 8.30 40.62 2

R2 8.16 41.37 92

AVE 8.23 41.00

CYL -0.75 2

Kerato Representative Value

R1 8.31 40.62 180

R2 8.17 41.37 90

AVE 8.24 41.00

CYL -0.75 180

Residual Astigmatism

REST -0.12 90

<L> SPH CYL AX PPS

- 3.75 -1.12 13 6.6

- 3.75 -1.12 15 6.6

- 3.75 -1.12 14 6.6

- 3.75 -1.12 14 6.6

SPS 6.9

Near PD

Far PD

PD = 65 NPD = 62 (50)

SHIN-NIPPON  
ACCUREF K-900

Interpupillary Measurement Function

### New Generation DESIGN & STYLE

Exquisite detail and quality. Sophisticated shape combined with soft curves and the attractive color with high quality two-tone metallic and pearlescent paintwork which complements any interior and appeals atmosphere of trust to the customer.

### New Joystick



The completely redesigned joystick with the shape and top button allows the operator to control the unit with more precise and instinctive movement.

### Improved side flaps, head rest and chin rest



Side flaps mounted to each side of the measurement window enabling to block out the light realizes high accuracy. The modified shapes of the forehead rest and the chin rest help to minimize stress of the patient.

t level of perfection and beauty has been achieved.

## Simple & Easy Operation

A swivel function to the left (30°) and a vertical tilt function (40°) have been added to the monitor unit.

This swivel function allows measurement while supporting the patient.

The operational screen has been also redesigned completely.

The well organized color plan/layout of the high-luminance color LCD panel makes the screen display extremely easy to read.

### Newly designed IOL Mode [color focus indicator]

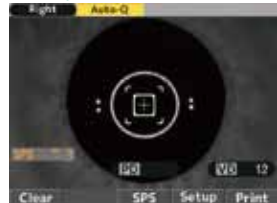


Color changes to green when focus is achieved

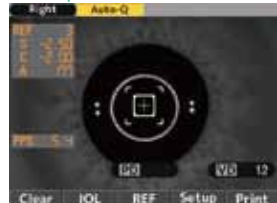
A subject with IOL was conventionally difficult to measure but this newly designed IOL mode has made it much easier.

### Scotopic & Photopic Pupil Diameter Measurement

Scotopic measurement [S.P.S. function]



Photopic measurement [P.P.S. function]



Both scotopic and photopic measurements are available.

※ S.P.S: Scotopic Pupil Size  
P.P.S: Photopic Pupil Size

### Expanded vertical tilt range

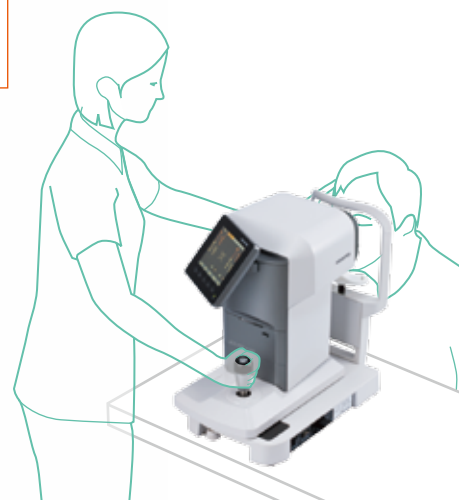
The adjustment range of the vertical tilt angle has been expanded to 40°.

The unit can comfortably be operated from both seated and standing positions.



Left  
swivel  
30°

Vertical  
tilt  
40°



Also introducing our new sister model  
Auto Refractometer ACCUREF R-800!!

A high-definition model made to the same specifications  
as K-900, excluding kerato measurement.

## ACCUREF R-800



## ACCUREF K-900/R-800

SPECIFICATIONS			K-900	R-800
Refractive measurement range (Ref measurement)	Sphere (S)	Measurement range	-30D~+22D (VD=12) -22D~+30D (VD=0)	-30D~+22D (VD=12) -22D~+30D (VD=0)
		Unit	0.12D, 0.25D (Switching)	0.12D, 0.25D (Switching)
	Cylinder (C)	Measurement range	0D~±10D (VD=0)	0D~±10D (VD=0)
		Unit	0.12D, 0.25D (Switching)	0.12D, 0.25D (Switching)
		symbol	-, +, ± (Switching)	-, +, ± (Switching)
	Axis (A)	Measurement range	0°~180°	0°~180°
		Unit	1°	1°
	Vertex distance	0, 10, 12, 13.5, 15mm		0, 10, 12, 13.5, 15mm
Minimum pupil diameter measurable		φ2.0mm	φ2.0mm	
Corneal curvature radius measurement	Corneal curvature radius	Measurement range	5.0mm~10.0mm	—
		Unit	0.01mm	—
	Corneal refractivity	Measurement range	33.75D~67.5D (where corneal refractive index n=1.3375)	—
		Unit	0.12D, 0.25D (Switching)	—
	Degree of corneal astigmatism	Measurement range	0D~±10D	—
		Unit	0.12D, 0.25D (Switching)	—
		symbol	mm, -D, +D (Switching)	—
	Axis angle	Measurement range	0°~180°	—
		Unit	1°	—
PD measurement	Measurement range		85mm(Near PD output)	85mm(Near PD output)
	Unit		1mm	1mm
Pupil diameter measurement	Measurement range		φ2.0mm~φ8.5mm	φ2.0mm~φ8.5mm
	Unit		0.1mm	0.1mm
Measurement time	Refractive measurement range		Approx. 0.07sec.	Approx. 0.07sec.
	Corneal curvature radius measurement		Approx. 0.07sec.	—
Fog control	Fogging for each measurement(Auto) Fogging is provided at the first measurement followed by continuous measurement (Auto-Quick)			

K-900/R-800  
Standard Accessories

- Operation Manual
- Power cord
- Printer paper
- Fuse
- Dust cover
- Model eye
- Chin rest paper
- Chin rest paper pin

## MECHANICAL SPECIFICATIONS

Size	(W) 240mm (D) 422mm (H) 430mm
Movement range of the measurement unit	Forward/backward ±22mm Horizontal direction ±43mm Vertical direction ±17mm
Movement range of the chin rest	vertical ±30mm
Movement range of LCD	+30°swivel (left only), +40°tilt
Weight	approx. 13kg

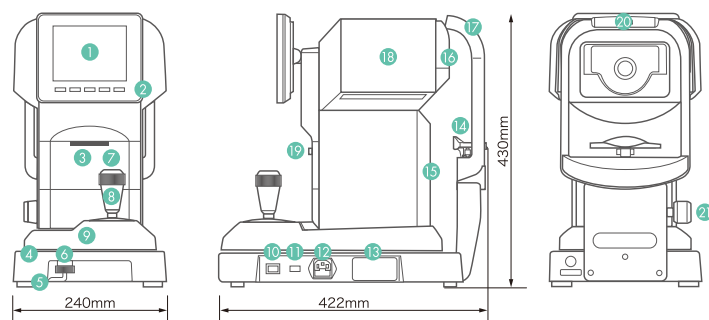
※ Common to K-900/R-800

## ELECTRICAL SPECIFICATIONS

Built-in monitor body	5.7 inch color LCD monitor
Printer	thermal line printer (paper width 58mm)
Power voltage/frequency	AC100V-240V, 50/60Hz
Power consumption	60VA
Power saving function	OFF, 3, 5, 10min. (selectable)

※ Common to K-900/R-800

## External diagram (to scale) and Part Identification



- |                               |                                    |
|-------------------------------|------------------------------------|
| 1 LCD monitor                 | 11 RS-232C connector               |
| 2 Touch sensor panel          | 12 Power plug connector            |
| 3 Printer cover               | 13 Rating plate                    |
| 4 Base                        | 14 Chin rest                       |
| 5 Rubber feet                 | 15 Body cover                      |
| 6 Main unit sliding lock knob | 16 Face panel                      |
| 7 Measurement start switch    | 17 Head rest                       |
| 8 Joystick                    | 18 Head cover                      |
| 9 Sliding base cover          | 19 Printer cover open/close button |
| 10 Power switch               | 20 Rubber head rest                |
|                               | 21 Chin rest knob                  |

Manufacturer

**Rexxam**  
Rexxam Co.,Ltd.

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Design and specifications are subject to change without notice.

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