

# Auto kerato-refractometer / Auto refractometer KR-8900 / RM-8900



CONNECTING VISIONS

# Topcon's new KR/RM-8900, professional equipment for the professional

Topcon has been a leader in the manufacturing of refractometers since 1950. It doesn't come as a surprise that with such vast experience, Topcon Auto Kerato-Refractometers and Auto Refractometers have been always considered by eye care professionals "the cutting edge" of refractive instruments.

Consistent with its successful history of quality, durability and precision, Topcon is proud to introduce the 8900 series of Auto Kerato-Refractometers and Auto Refractometers. Ease of use, high accuracy and sophisticated design are the main characteristics of the KR-8900 and the RM-8900.

## Compact and stylish design

The compact footprint of the RM-8900 and the KR-8900 can save space and add functionality to the contemporary eye care practice. A smaller optical head facilitates the operator's view of the patient's face. An ergonomically positioned screen makes readings easy and comfortable to see.

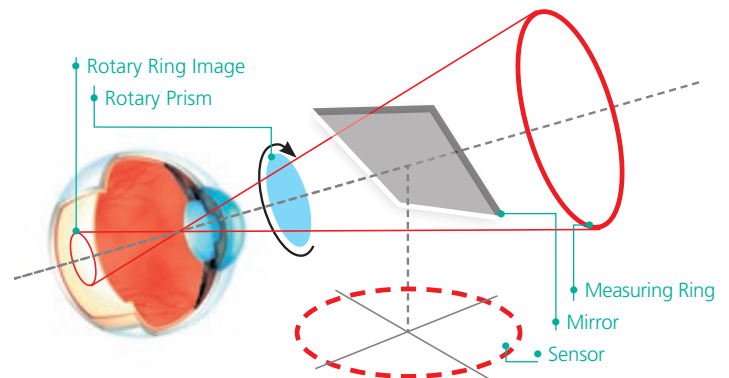


## Features

### Unparalleled accuracy

The unique \*Rotary Prism Technology, exclusive of Topcon, allows for unparalleled precision and reliability. This system measures a wider area of the retina while permitting measurements through pupils as small as 2mm in diameter.

*\*The off-centered ring target can cover areas that may be occluded by a small pupil. The angle of the prism enables a wider area of the retina to be measured.*



TOPCON'S Rotary Prism Measurement System



## Quick and effortless operation

- Simultaneous display of right / left readings permits all patient information to be seen instantly on screen.
- Scenic fixation target which assists patients fixate comfortably, and auto-fogging function which minimizes accommodation increase patient comfort and result in accurate readings.
- Automatic measurement and printout are available. (Exclusive to KR-8900)
- An incorporated CPU makes measurements faster and more precise. Patient comfort is enhanced.
- Various interfaces with other Topcon instruments provide a total interconnectivity solution.

## Convenient functions

### Printed data

A complete printout of the data acquired is available at the touch of a button. The operator can choose among five print data formats:

1. **ALL:** Prints out all measurements (up to 10 readings per eye)
2. **AVE:** Prints out averaged value for all measurements
3. **GRAPHIC:** Prints out illustration diagrams together with data
4. **SIM:** Prints out only the average measurement value of all readings
5. **CUSTOM:** Output data format can be customized according to the user's preference

The general addition and estimated near PD value can be printed out.

NAME			
MAY_25_2008 AM 11:23			
NO.0001 01			
REF. DATA			
VD:	13.75	CYL:	(-)
<R>	S	C	A
	+ 1.25	- 1.25	77
	+ 1.25	- 1.25	76
	+ 1.00	- 1.25	75
	+ 1.00	- 1.25	78
	+ 1.00	- 1.25	76
	+ 1.00	- 1.25	76
<L>	S	C	A
	+ 1.00	- 1.25	94
	+ 1.00	- 1.25	94
	+ 1.00	- 1.25	94
	+ 1.00	- 1.25	93
	+ 1.00	- 1.25	93
	+ 1.00	- 1.25	94
PD:	64		
KRT. DATA			
<R>	D	MM	A
H	44.00	7.68	178
V	43.50	7.75	88
Ave	43.75	7.72	
	CYL:	-0.50	88
	D1	D2	A1
#1	43.50	44.00	88
#2	43.50	44.00	91
#3	43.50	44.00	89
#4	43.50	44.00	89
#5	43.50	44.00	89
<L>	D	MM	A
H	43.75	7.70	170
V	43.50	7.77	80
Ave	43.75	7.74	
	CYL:	-0.25	80
	D1	D2	A1
#1	43.50	43.75	80
#2	43.50	43.75	77
#3	43.50	43.75	75
#4	43.25	43.75	76
#5	43.50	43.75	76
			TOPCON

### Control Panel

The various modes and functions can be easily selected from the simplified control panel.

### Cornea diameter measurement

Corneal diameter can be measured during testing, and the image can be recalled later. If desired, both eyes can be measured, with the data recorded on the printout. (Exclusive to KR-8900)

### Easy-to-load printer

Easier to load, quicker and quieter, the incorporated printer provides clear and complete printouts. Just drop the paper roll into the holder.



## IMAGeNet i-base™



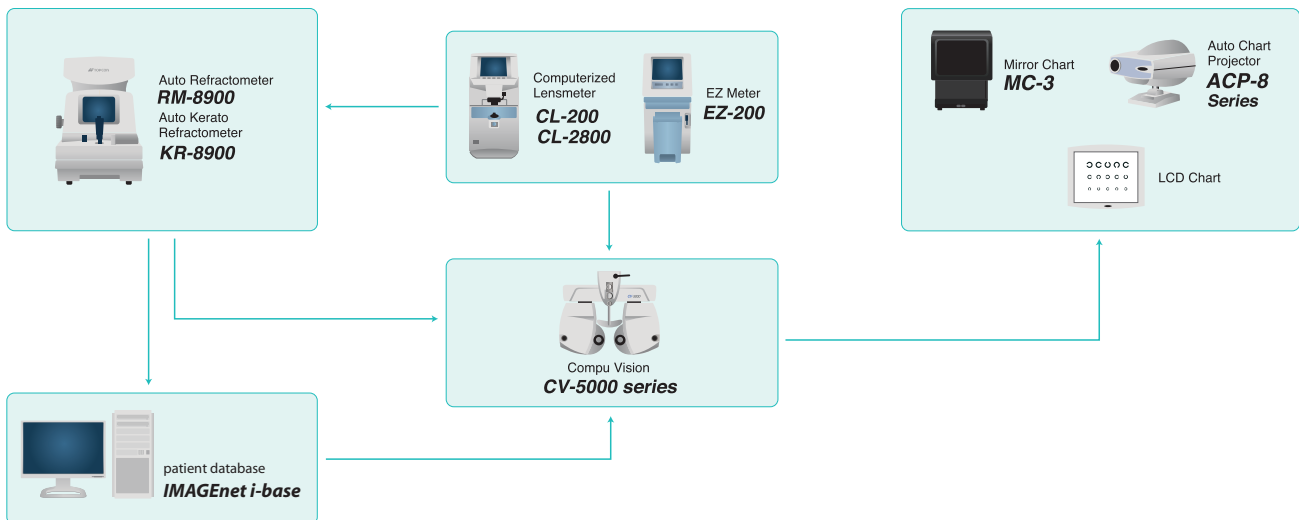
### Integration in IMAGeNet i-base™

Topcon RM/KR-8900 integrates with the IMAGeNet i-base™ software system. The captured objective refraction and keratometry (KR-8900 only) data will be displayed in their own dedicated window. The captured data can be saved in the patient file and, if required, send to other applications, such as Topcon CV-5000 computerized phoropter.

## Specifications

	RM-8900	KR-8900
<b>Objective refractometer mode</b>		
Sphere	-25D to +22D (0.12D / 0.25D)	
Cylinder	0D to ±10D (0.12D / 0.25D)	
Axis	0° to 180° (in 1° or 5° steps)	
Minimal pupil diameter	Ø 2.0mm	
<b>Corneal curvature mode</b>		
Corneal curvature radius	-	5.00 to 10.00mm (0.01mm)
Refraction index	-	1.3375
Corneal refraction	-	67.5D to 33.75D (0.12D/0.25D)
Corneal astigmatism	-	0D to ±10D (0.12D / 0.25D)
Corneal astigmatism axial angle	-	0° to 180° (in 1° or 5° steps)
<b>Others</b>		
PD measurement range	20-85mm max. in 1mm step	
Output	RS-232C / USB1.1	
Dimensions	275(W) x 475(D) x 450(H)mm	
Weight	20.0kg	
Power supply	100-120V, 220-240V AC, 50/60Hz, 60VA	100-120V, 220-240V AC, 50/60Hz, 75VA

## System Chart



### IMPORTANT

Subject to change in design and/or specifications without advanced notice.

In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.

#### Topcon Europe Medical B.V.

Essebaan 11; 2908 LJ Capelle a/d IJssel; P.O. Box 145;  
2900 AC Capelle a/d IJssel; The Netherlands  
Phone: (+31) 10 4585077; Fax: (+31) 10 4585045  
E-mail: medical@topcon.nl; www.topcon.eu

#### Topcon Deutschland GmbH

Giesslerallee 31; D-47877 Willich, Germany  
Phone: (+49) 2154 885 0; Fax: (+49) 2154 885 177  
E-mail: info@topcon.de; www.topcon.de

#### Topcon Scandinavia A.B.

Neogatan 2; P.O. Box 25; 43151 Mölndal, Sweden  
Phone: (+46) 31 7109200; Fax: (+46) 31 71 09 249  
E-mail: medical@topcon.se; www.topcon.se

#### Topcon Danmark

Praestemarksvej 25; 4000 Roskilde, Danmark  
Phone: (+45) 46 327500; Fax: (+45) 46 327555  
E-mail: info@topcondanmark.dk  
www.topcondanmark.dk

#### Topcon España S.A.

HEAD OFFICE; Frederic Mompou, 5; 08960 Sant Just Desvern; Barcelona, Spain  
Phone: (+34) 93 4734057; Fax: (+34) 93 4191532  
E-mail: medica@topcon.es; www.topcon.es

#### Topcon S.A.R.L.

HEAD OFFICE; 89, rue de Paris; 92585 Clichy, France  
Phone: (+33) 1 41069494; Fax: (+33) 1 47390251  
E-mail: topcon@topcon.fr; www.topcon.fr

#### Topcon Italy

Viale dell'Industria 60; 20037 PADERNO DUGNANO;  
(MI) ITALY  
Phone: (+39) 02 9186671; Fax: (+39) 02 91081091  
E-mail: topconitaly@tiscali.it; www.topcon.it

#### Topcon (Great Britain) Ltd.

Topcon House; Kennet Side; Bone Lane; Newbury  
Berkshire RG14 5PX; United Kingdom  
Phone: (+44) 1635 551120; Fax: (+44) 1635 551170  
E-mail: info@topcon.co.uk; www.topcon.co.uk

#### Topcon Ireland

Unit 69, Western Parkway; Business Centre  
Lower Ballymount Road; Dublin 12  
Phone: (+353) 1460 0021; Fax: (+353) 1460 0129  
E-mail: topcon@indigo.ie