

# KR-1

Auto Kerato-Refractometer



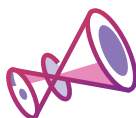
# Fully automated Easy-to-use Kerato-Refractometer



## Overview



**Automated  
Kerato-Refractometer**



**Rotary Prism  
Technology**



**Full 360° rotating monitor**  
allows operator to  
maintain distance from patient



**Small footprint.  
Space Saving**



**Patient Friendly**



**Easy to use**

## KR-1

The Topcon KR-1 is a modern, automated, easy-to-use kerato-refractometer. Controlled from the color touchscreen and incorporating Topcon's Rotary Prism technology.





# Automatic Workflow

## Simple Operation

Simply touch the center of the pupil on the touchscreen control panel, and the KR-1 automatically captures right then left eye information. The KR-1 provides an innovative operator experience.



Touch the pupil image on the screen for auto-alignment



Automatic capture and R/L movement





Data displayed with option to transfer and/or print


# KR-1 Features


## Easy-to-Use Color Touchscreen Control Panel

All operating procedures can be performed with the touchscreen control panel. The optimized user interface provides an intuitive operator experience. The KR-1 rapidly captures data from the right eye before moving automatically to capture the left eye. An easy-to-use manual capture option is also available, featuring manual focus coupled with auto-alignment.


 ID

 Right Eye


 Chinrest Up/Down

 Position Reset


 Measuring Mode

 Cataract


 Fixation Target


 FOG


 Target Image

 Print


 Corneal Diameter


 All Clear

 Settings

 Left Eye

 Move device forward and backward

 Start\*

 Auto/ Manual

\*Pressing the 'Start' button results in immediate data capture, which may be necessary for less cooperative patients, or patients with significant corneal disease, that can make auto-alignment and focusing difficult.



# Flexible and Space Saving Layout

The control panel can be rotated in any direction. The compact device enables the operator to support the patient easily during measurement, even if the patient's eyelid needs to be lifted. These unique aspects will contribute to space saving and flexible layout in your eye examination room.



Operation from  
the front  
(Seating)



Operation from  
the front  
(Standing)



Operation from  
the side



Operation from  
the patient's side

# KR-1 Features

## Compact Ergonomic Design

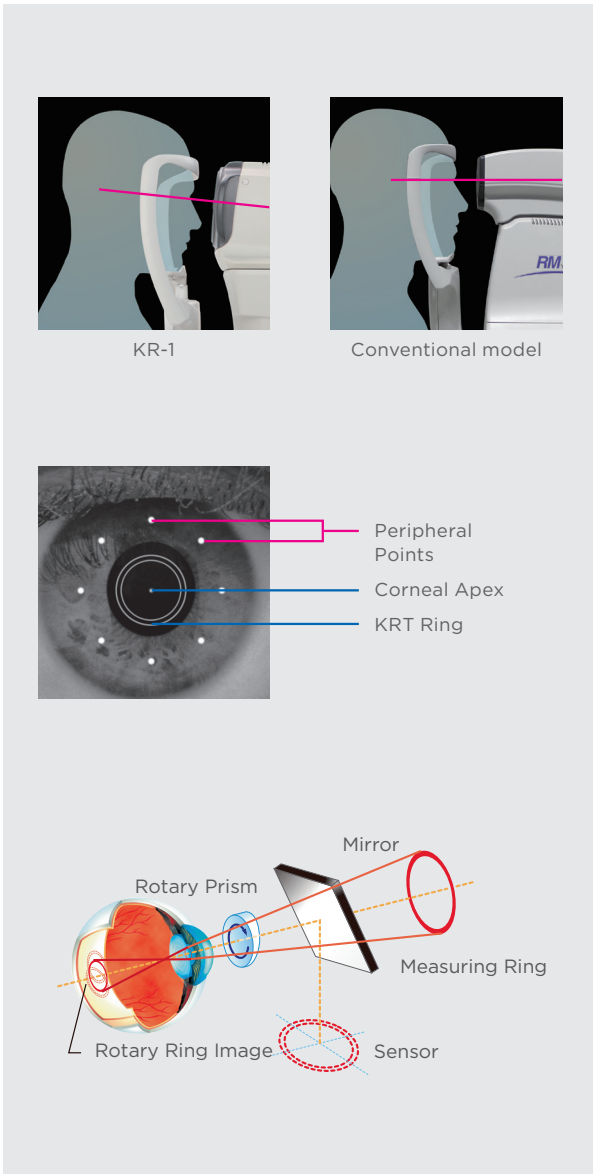
The KR-1's ergonomic design provides a more comfortable position for the patient with an inclined optical head (5°). The compact instrument enables easier access for patients.

## Peripheral KRT

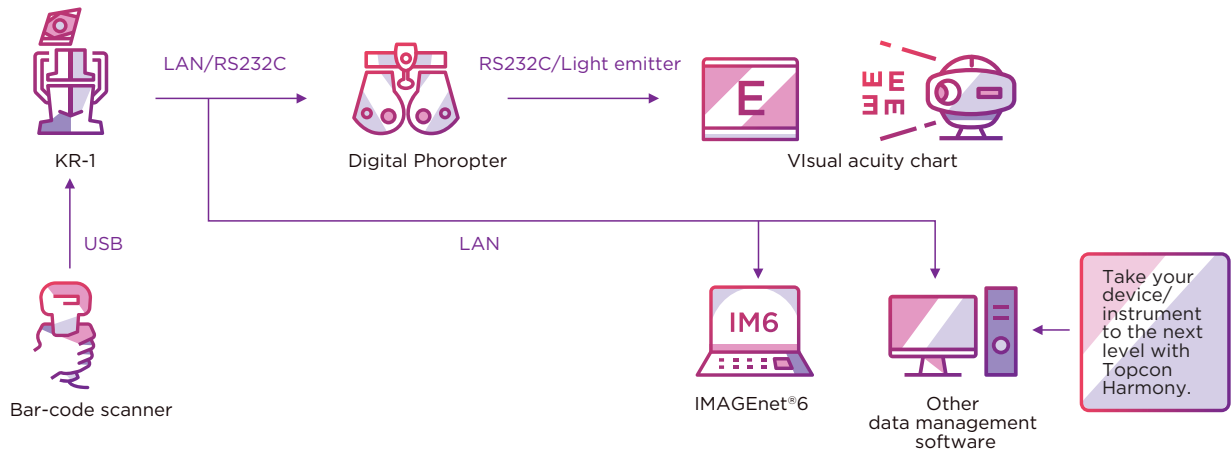
The KR-1 allows the operator to capture 8 peripheral corneal curvature measurements in addition to the central data.

## Topcon's Rotary Prism Measuring System

With Topcon's Rotary Prism Technology, the KR-1 provides stable measurement. The unique, eccentric rotation of the measurement ring, is designed to reduce the artifact from the fundus.



## System Chart



\*Please contact Topcon subsidiaries in your region for the detailed system configurations.



Specification of KR-1

Refractive Power Measurement	Spherical refractive power: -25D to +22D (0.12D/0.25D steps)*
	Cylindrical refractive power: 0D to ±10D (0.12D/0.25D steps)*
	Astigmatic axis angle: 0° to 180° (1°/ 5°steps)
	Minimal measurable pupil diameter: ϕ2 mm
Corneal Curvature Measurement	Corneal curvature radius: 5.00mm to 10.00 mm (0.01mm step)
	Corneal refractive power: 67.50D to 33.75D (0.12D/0.25D steps) (keratometric corneal refractive index = 1.3375)
	Corneal astigmatic axis angle: 0° to 180°(1°/ 5° steps)
	Corneal astigmatic refractive power: 0D to ±10D (0.12D/0.25D steps)
PD Measurement Range	20mm to 85mm (1mm step)
Data Transport Terminal	USB (Import), RS-232C (Export), LAN (Export)
Dimensions	286-326mm (W) × 445-526mm (D) × 466-615 mm (H)
Weight	19kg
Power Supply	100-240V AC, 50-60Hz, 75VA

\* -25D ≤ spherical refractive power + cylindrical refractive power and spherical refractive power + cylindrical refractive power ≤ +22D

Not all products, services or offers are approved or offered in every market, and products vary from one country to another. Contact your local distributor for country-specific information and availability.

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

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