

KR-1

Auto Kerato-Refractometer



Fully automated Easy-to-use Kerato-Refractometer



KR-1 Features

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

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	Cataract	Settings
Right Eye	Fixation Target	Left Eye
Chinrest Up/Down	FOG	Move device forward and backward
Position Reset	Target Image	Start*
Measuring Mode	Print	Auto/ Manual
	Corneal Diameter	
	All Clear	

*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.

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

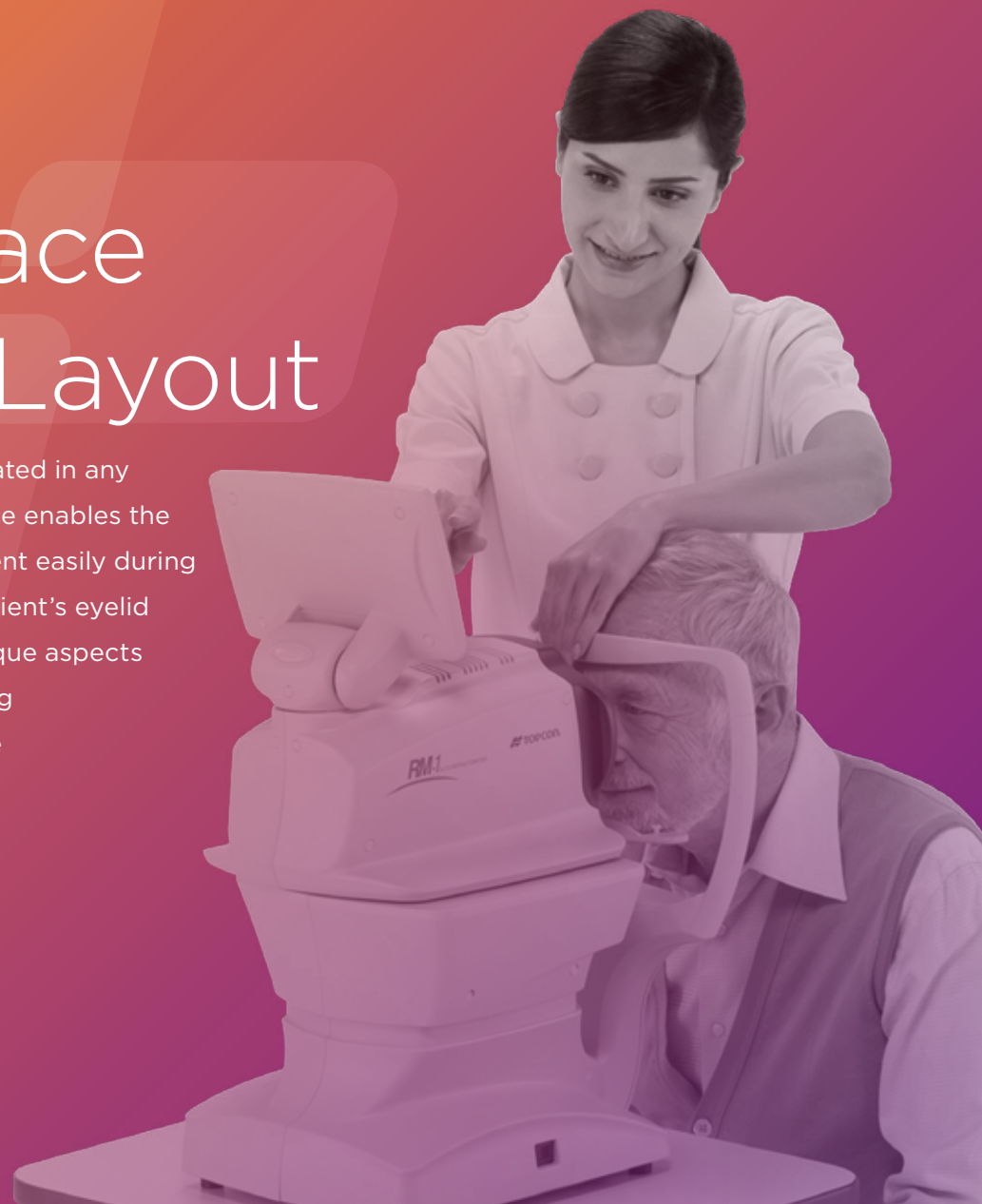


Data displayed with option to transfer and/or print



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 (Sitting)



Operation from the front (Standing)



Operation from the side

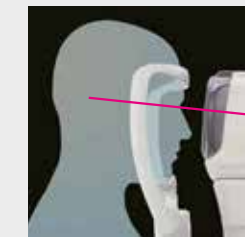


Operation from the patient's side

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.



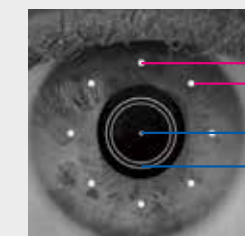
KR-1



Conventional model

Peripheral KRT

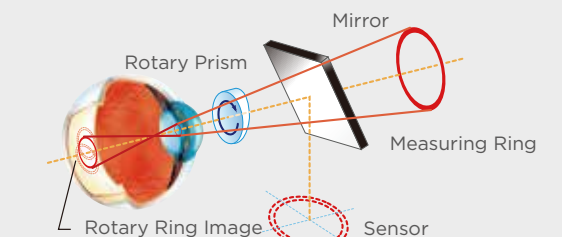
The KR-1 allows the operator to capture 8 peripheral corneal curvature measurements in addition to the central data.



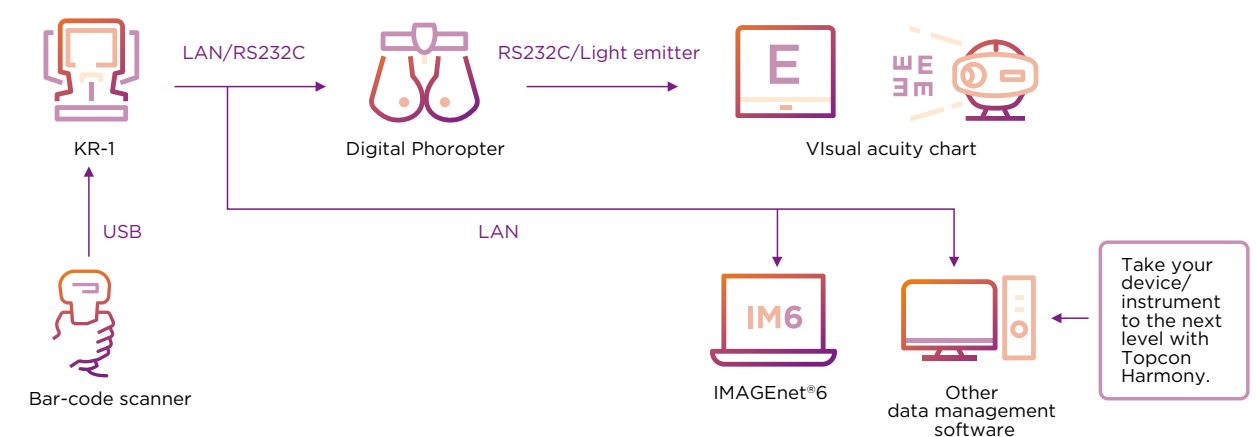
Peripheral Points
Corneal Apex
KRT Ring

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.

Specifications 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) (corneal refractive power = 1.3375)
	Direction of corneal cylindrical axis: 0° to 180°(1°/ 5° steps)
	Corneal cylindrical 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 or spherical refractive power + cylindrical refractive power ≤ +22D

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

Not all products, services, or offers are available in all markets. Contact your local distributor for country-specific information and availability.



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