FUNCTION & AESTHETICS COMBINE IN THE NEW KR-1

The next generation of refractive care

The KR-1 is a revolutionary auto Kerato- Refractometer. The tiltable and rotatable touch screen will change the way of working for ever.

The operator can use the KR-1 from various angles, ensuring the best interaction with the patient. The Topcon KR-1 can be used in several set-ups, which use a minimum of working space.

4 unique features

» Fully automated operation with touch screen
» Flexible & space saving lay out
» Reliable & fast measurements
» Compact ergonomic design
4 UNIQUE FEATURES OF THE KR-1

FEATURE 1  KR-1 Fully automated with touch screen

The KR-1 is fully operated through a 8.5" wide touch screen. Simply touch the center of the pupil on the LCD screen to start measuring both eyes. The KR-1 automatically obtains objective refraction data of the right and left eye.

Fully automated! Just touch the center of the pupil.

The KR-1 can detect automatically abnormal conditions of an eye, i.e. cataract. The instrument changes to 'cataract mode' and continues the measurement. The KR-1 incorporates a button for cataract, in case you would like to start measurements in the cataract mode from the start.

Manual mode
If required, the KR-1 can be set in manual mode as well. The manual mode is used for focusing only. The up/down and left/right movement will remain automated.

Easy to use colour touch screen control panel
All operating procedures can be performed with the touch screen. The buttons on the screen are clear and easy to understand.
Flexible & space saving lay-out

The adjustable touch screen control panel enables the operator to be positioned anywhere around the patient because the control panel can be faced in a number of different directions. The KR-1 can be positioned in a conventional set-up, against a wall, or even in a corner of a room.

The compact body enables the operator to support the patient easily from many different positions during measurement even when the patient’s eye lid needs to be opened. These unique aspects will contribute to space saving and flexible layout in your eye examination room.

Reliable & fast measurement

Rotary prism measuring system

With Topcon’s exclusive Rotary Prism Technology, the KR-1 provides unmatched accuracy and reliability. This technology ensures reproducible results. The objective measurement of both eyes is done in a fast and comfortable way for the patient.

Peripheral KRT

The KR-1 allows the operator to take peripheral KRT measurements of the corneal curvature radius, in addition to inner KRT ring measurements, which is useful in corneal evaluation of contact lens fitting.

Peripheral Points

Ergonomic Optical Head and Headrest Design

The KR-1’s new ergonomic design provides a more comfortable position for the patient with a 5° inclination of the patient’s head, and optical head of the KR-1. The compact body of KR-1 and improved chin rest design enables easier access to patients. The operator will have better interaction with the patient.

Connectivity

The KR-1 can be connected directly to other instruments such as the Topcon CV-5000 automated phoropter. The KR-1 can be integrated into the Topcon Imaging and database software: IMAGEnet i-base. This software enables easy and fast access to patient data and is a useful tool to maintain customer contacts.
Specifications

**Refractive power measurement**
- Spherical refractive power: -25 to +22D (0.12D/0.25D steps)*
- Cylindrical refractive power: 0D to ±10D (0.12/0.25D steps)*
  - Astigmatic axial angle: 0° - 180° (1°/5° steps)
- Minimal measurable pupil diameter Ø 2.0 mm

**Corneal curvature measurement**
- Corneal curvature radius: 5.00 mm - 10.00 mm (0.01 mm step)
- Corneal refractive power: 67.50D - 33.75D (0.12/0.25D steps)
  - (corneal refractive index = 1.3375)
- Corneal astigmatic refractive power: 0D ± 10D (0.32D/0.25D steps)
  - Corneal astigmatic axial angle: 0° - 180° (1°/5° steps)

**PD measurement range**
- 20 - 85 mm (1 mm step)

**Data transport terminal**
- USB (import), RS-232C (export), LAN (export)

**Dimensions**
- 286 ~ 326 mm (W) x 445  ~  526 mm (D) x 466 ~  615 mm (H)

**Weight**
- 19 kg

**Power supply**
- 100-240V AC, 50-60Hz, 75VA

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* -25D ≤ spherical refractive power + cylindrical refractive power or spherical refractive power + cylindrical refractive power ≤ +22D

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**System Chart**

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**Contact Topcon subsidiaries or dealers for system configuration.**