

LRK-Series

Auto Refractors and Keratometers



"THE FAMILY AUTO REFRACTOR KERATOMETER LUXVISION"





LRK-Series COMPARISON

Features

LRK-SERIES

K/R MODE
REF MODE
KER MODE
RETRO ILLUM
CLBS
COLOR VIEW MODE
AUTO TRACKING



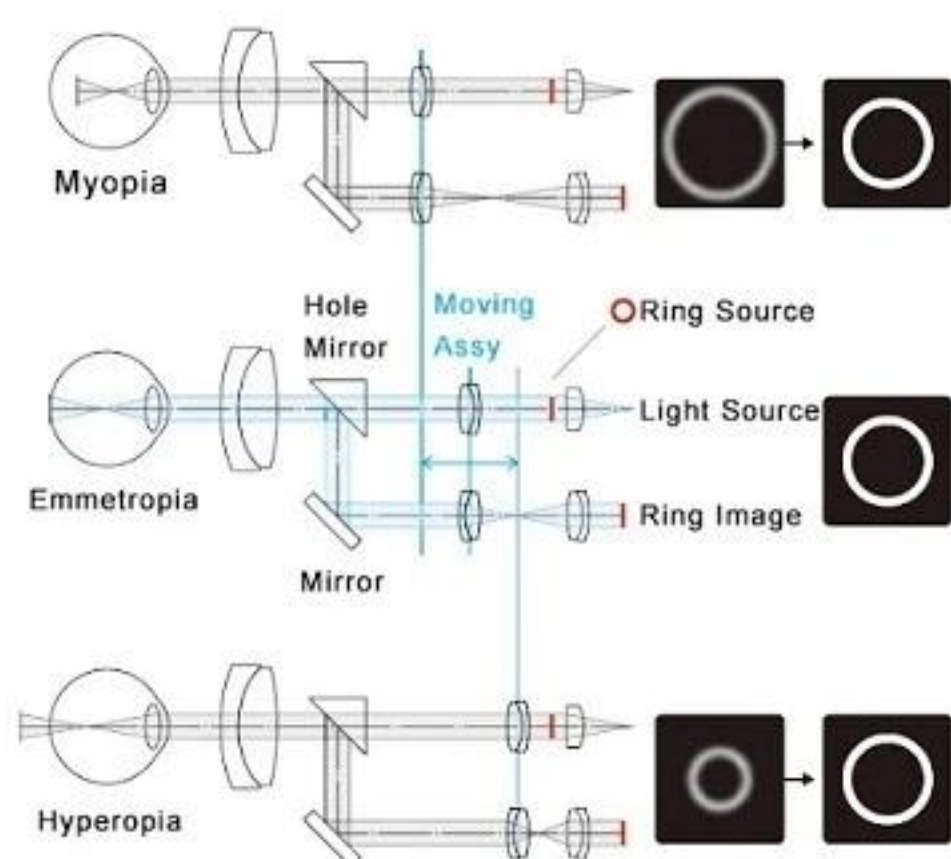
LRK-7800



LRK-7000

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COMMON FUNCTIONS LRK-7800 / LRK-7000



Smart Assembly Moving Control Technology

With a fast, accurate measuring speed, the sophisticated rotary prism is both intelligent and elegant in its design. Smart enough to take refractive errors into consideration, this unique device projects a measurement ring onto the retina in order to get a precise measurement. Using its Smart Assembly Movement capability, it automatically adjusts to provide maximum signal output stability, ensuring clear and comprehensive measurements

Optical System

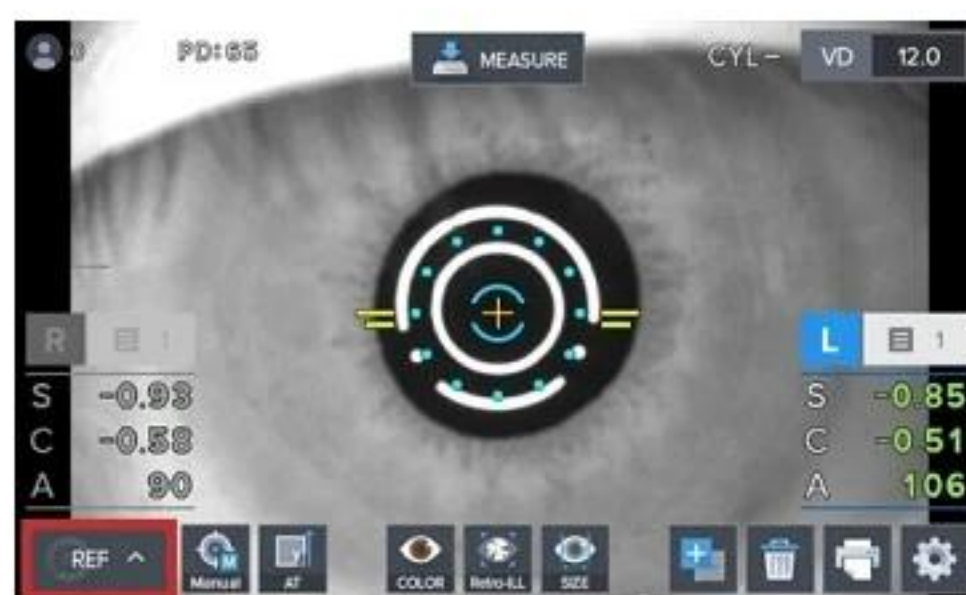
The LRK'S are designed for maximum clarity. Unwanted reflections and glare can hinder the measurement process, and patient conditions like cataracts or other visual disorders which can affect the readings are taken into account as measurements are determined, creating a more streamlined, efficient optical system that delivers practical, actionable data.

Specialized Testing. Individualized Results.

Attune each examination to the specific needs of your patient thanks to multiple settings and configurations. The built-in REF mode automatically refracts both eyes without the need for additional measurements while the KER mode quickly provides K readings individually to test for corneal curvature. The time-saving R/K mode allows the physician or specialist to test for both refractive issues and keratometry at the same time, maximizing each patient visit while obtaining optimum results each and every time.



Mode KER



Mode REF



Mode K/R

COMMON FUNCTIONS LRK-7800 / LRK-7000



High-Speed Printer

Make sure results can be printed cleanly and efficiently with the built-in high speed printer. Print up to 10 results with a whisper-quiet printing process. Changing paper is easy and efficient, so examinations can be conducted quickly and accurately and have results in hand at the push of a button.



Large 7-inch Color Display with Touch Functionality

Now, physicians can enjoy greater accuracy and ease of use thanks to the large, 7-inch TFT LCD color screen. Vivid, high-quality color images with real-time processing provides an interface that's as convenient and easy to use as a smartphone. Available enlargeable optical magnification helps to measure the patient's eye with greater magnification and see every detail sharply and crisply.

COMMON FUNCTIONS LRK-7800 / LRK-7000

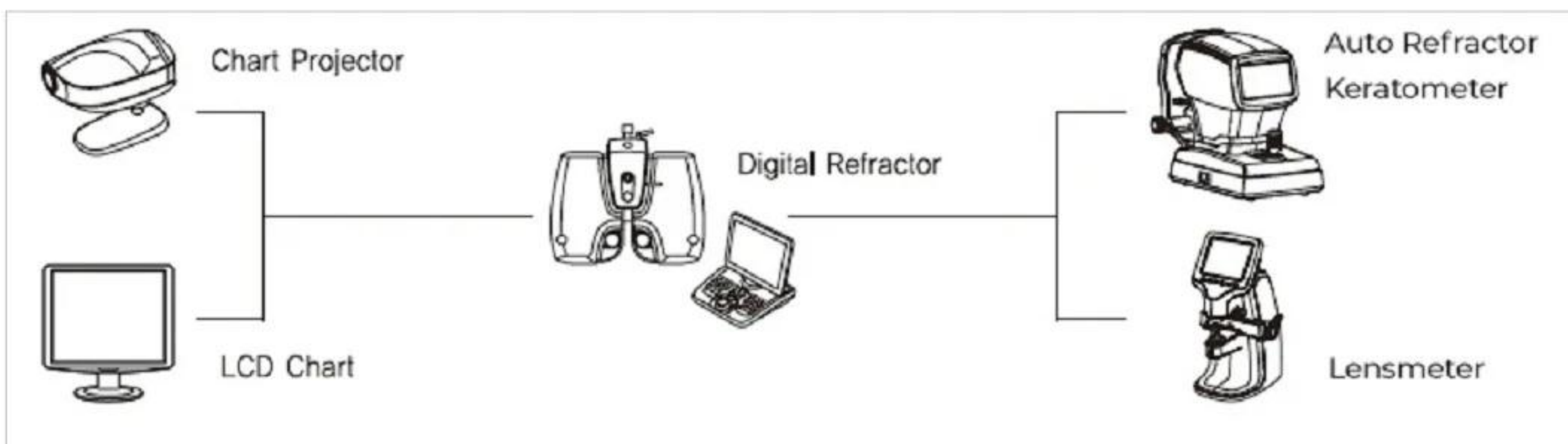


Maximum Comfort with One-Touch Lock

Never again worry about tipping or unsteady devices thanks to the easy to use one-touch lock system. Lock the upper section of the LRK's into place, adding stability and comfort according to the patients' needs conducted quickly and accurately and have results in hand at the push of a button.

System Networking

Connect the LRK to your network within the Digital Refraction System to enjoy the full spectrum of connectivity with one complete, integrated system.

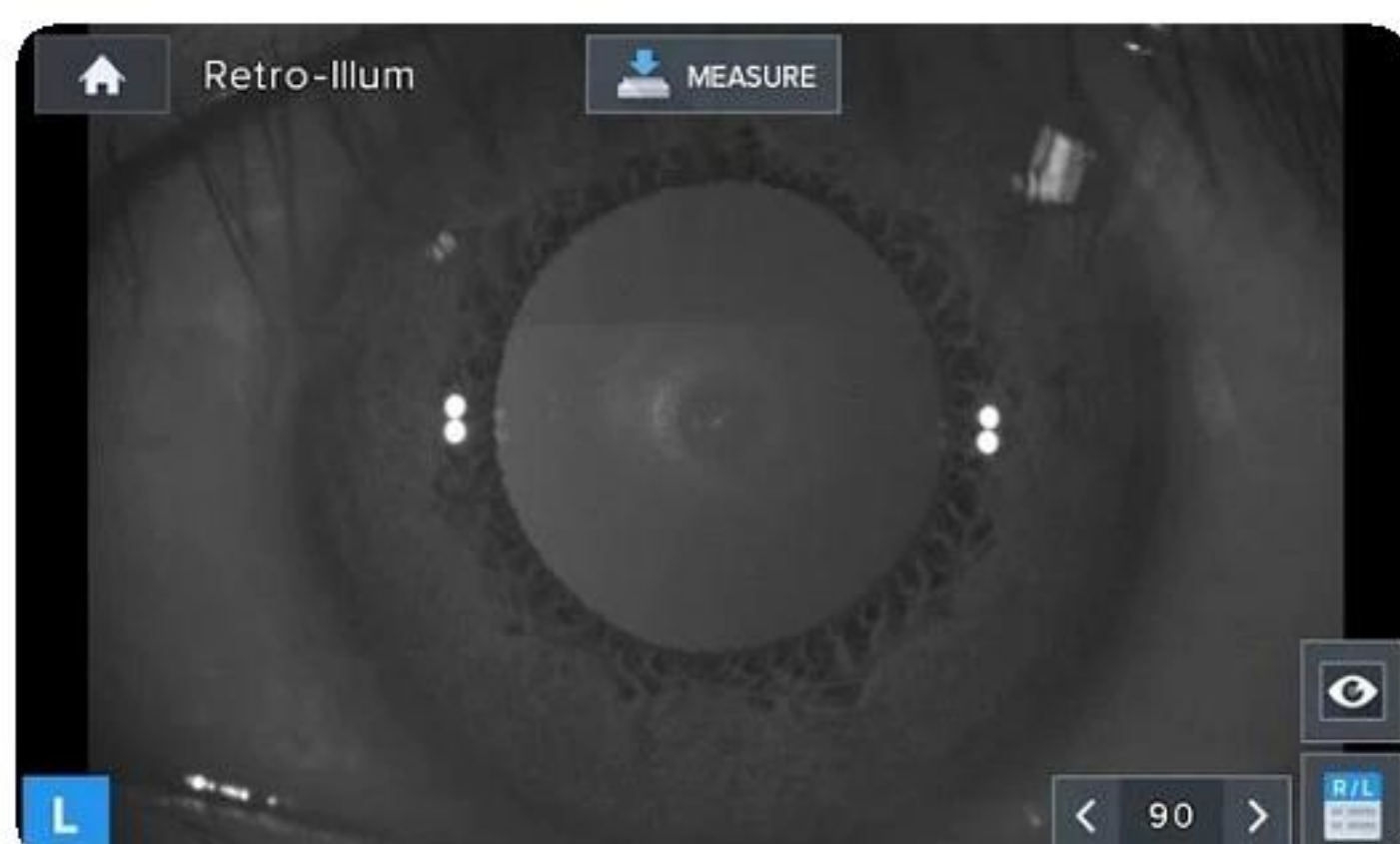


UNIQUE FEATURES



Immediate Color View (LRK-7800)

The built-in full-color CCD camera and LED white light source, physicians can now see each patient's eyes more clearly and fully. Check the fit of contact lenses easily and effectively without the need for slit lamps. With the BLUE LED function, physicians can see the degree of corneal adjustment and contact lenses using the combination of blue LED and fluorescein solution. Use the White LED function to view the full-color image, allowing for a better, more comfortable contact lens fit for patients.



Retro-Illumination Mode (LRK-7800)

Thanks to the LRK-7800's innovative backlight mode, physicians can now check the full spectrum of eye health, including unusual crystalline lens changes, cataracts and corneal scratches that may be undetectable with inferior tools. Using the yellow filter provides an accurate fit for contact lenses, and the overall view allows the specialist to independently judge eye health condition with spectacular illumination and clarity, allowing for a better, more comfortable contact lens fit for patients.



CLBS (Contact Lens Base Curvature) (LRK-7800)

Physicians will find it very useful in clinical practice to have the ability to measure the base curvature of contact lenses, providing a more adaptive fit for their patients.

UNIQUE FEATURES



Focusing ModeView (LRK-7800)

Specialists can instantly see when the eye is in an optimum position thanks to the focus indicator. This, in turn, makes the exam less stressful for the patient and paves the way for an experience that's fast, efficient and pleasant.



Automatic Tracking (LRK-7800)

The smart automatic tracking of the LRK-7800 follows the patient's eye without the need for intervention from the physician. If, however, manual adjustment is needed, it can easily be adjusted via the simple joystick by moving it back and forth without needing to turn the device.

LRK-Series

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SPECIFICATIONS



LRK-7800



LRK-7000

Measurement Mode	
K/R Mode	Continuous Keratometry & Refractometry
REF Mode	Refractometry
KER Mode	Keratometry
Retro ILL	Retro-illumination
Color View Mode/Color	View & Contact Lens Fitting Assistance (White & Blue LED Light)
Refractometry	
Vertex distance (VD)	0.0, 12.0, 13.75, 15.0
Sphere (SPH)	-30.00 ~ +25.00 (VD=0.5in/12mm) (Increments: 0.01, 0.12, 0.25D)
Cylinder (CYL)	0.00 ~ ±12.00D (Increments: 0.01, 0.12, 0.25D)
Axis (AX)	0~180° (1° unit)
Astigmatism Indication	-, +, ± (Mixed)
Keratometry	
Radius of Curvature	0.2 ~ 0.5in (5 ~ 13.0mm) (Increments: 0.01mm)
Cornea Power	25.96~67.50D (increments: 0.05, 0.12, 0.25D) (When cornea equivalent refractive index is 1.3375)
Corneal Astigmatism	0.00 ~ - 15.00D Increments: 0.05 / 0.12 / 0.25D)
Axis	1~180° (Increments: 1°)
Pupil, Iris, Diameter	0.08 ~ 0.55in (2.0 ~ 14.0mm) Increments: 0.1mm)
Memory of Data	10 measurements for each eye
Auto Tracking Distance	
Up-Down	±0.6in/15mm
Others	
Display	7 inch Wide Color TFT LCD Resistive Touch Panel
Interface	RS-232C
Internal Printer	Thermal Line Printer
Power Supply	100-240VAC, 1.0-0.6A, 50/60Hz
Dimension / Weight	10.3(W) X 20.2(D) X 17.04(H)in / 35.2 lb X 513(D) X 433(H) mm / 16 Kg)

Measurement Mode	
Cornea/curve	Continuous Measurement
Curve Measurement	(REF mode), Cornea Measurement (KER mode)
Curve Measurement	
Distance Between Vertex of Cornea	(VD) 0, 0.47, 0.54, 0.59 in (0, 12, 13.75, 15 mm)
Spherical Prescription (SPH)	-30.00 ~ +25.00 D (in case of VD = 12mm / 0.47 in)
Astigmatism Prescription	(CYL) 0.00 ~ ±12.00D (0.01/0.12/0.25 D unit)
Astigmatism Axis Angle	(AX) 0 ~ 180° (1° unit)
Astigmatism Indication	-, +, MIX
Pupil Distance (PD)	0.39 ~ 3.35in (10 ~ 85mm)
Minimum Pupil Diameter that can be measured	0.078in / 2.0mm
Cornea Measurement	
Corneal Curvature Radius	0.2 ~ 0.51in (5 ~ 13 mm) (increments: 0.0004in / 0.01mm)
Corneal Refraction Power	Measurement Unit: 25.96 ~ 67.00D (cornea equivalence's refractive power: 1.3375)
Indication Unit:	0.05/0.12/0.25D unit
Cornea Astigmatism Prescription	0.00 ~ - 15.00D (increments: 0.05 / 0.12 / 0.25D)
Cornea Astigmatism Axis Angle (AX)	0~180° (Increments: 1°)
Cornea Diameter Measurement	0.08 ~ 0.55in Unit: 0.004in (2.0 ~ 14.0mm Unit: 0.1mm)
Chin Rest Travel Distance	
Up and Down	2.4in / 60 mm (+- 0.2 in / 5 mm)
Interface	
RS-232C (In/Out)	
Hardware Specifications	
Built-In Printer Thermoelectric Line Printer	
Monitor 7 inch Color LCD IPS Panel (800 * 480)	
Resistive Touch Panel	
Power Consumption 100-240 Vac 1.0-0.6A 50/60Hz	
Dimension / Weight 17(W) X 27(D) X 26(H) in / 62 lb (432(W) X 686(D) X 660(H) mm / 28 Kg)	



DISTRIBUIDOR