

ERK-9100

AUTO REFRACTOR/KERATOMETER/ABERROMETER



NEW EZER ERK-9100 AUTOREFRACTOR KERATOMETER ABERROMETER IS FAST, PRECISE, DURABLE, AND AFFORDABLE.



THE EZER WAY OF LIFE

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THE EZER ERK-9100 IS A POWERFUL, ACCURATE DIAGNOSTIC TOOL, PROVIDING PHYSICIANS WITH QUICK AND RELIABLE DATA. THE FLEXIBLE AND INTUITIVE OPERATIONAL MODE OF THIS FULLY FEATURED EQUIPMENT ALLOWS OPHTHALMOLOGISTS TO CONDUCT EXAMS MORE QUICKLY, AND GATHER PLENTY OF PRECISE INFORMATION ABOUT PATIENT'S EYES CONDITIONS.

Because this unit combines the functionality of an automatic refractometer, a keratometer, and an aberrometer in one easy-to-use equipment, the Ezer ERK-9100 measures perfectly the corneal curvature, refractive errors, and higher visual aberrations until the third-order. This makes it the best option for eye doctors who need precise data in order to issue prescriptions for contact lenses, eyeglasses, and to diagnose eye conditions. Easy to use, affordable, and more accurate than just about any other autorefractor keratometer aberrometer on the market, the Ezer ERK-9100 is the best choice for any ophthalmologist practice!

FEATURES

- Automatic Refractometer Keratometer Aberrometer
- -30D to +25D Wide Measurement Range
- Zernike Topographic Map Support
- Auto-Shooting Feature
- Easily Adjustable Chin Rest
- PD Measurement Feature
- Retro-Illumination For Cataract Patients
- Corneal Core And Corneal Peripheral Curvature Measurements
- 6.5" Color TFT LCD
- Measures Pupil Diameter To Ø2.0mm
- One-Touch Lock
- Simple Networking Capability for Integration with other equipment
- Easy To Use
- All-In-One Measurement Of Corneal Curvature And Refractive Power

THREE-IN-ONE AUTOREFRACTOR / KERATOMETER / ABERROMETER

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6.5 IN. LCD COLORED
HIGH RESOLUTION

MODE
ABE

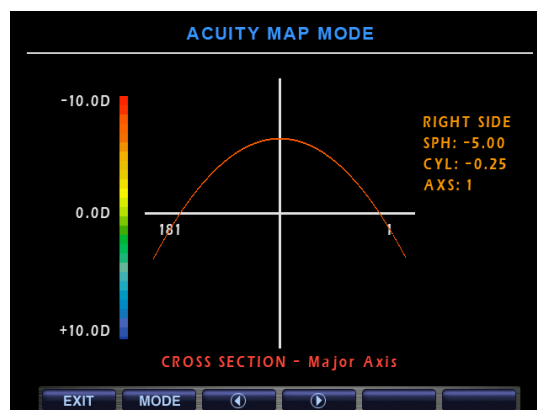
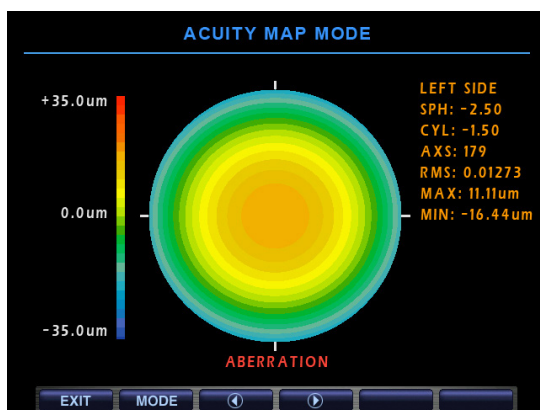
MODE
REF

MODE
KER

The advanced design of the ERK-9100 combines refractometry, keratometry and aberrometry into a single product. Users can choose to perform either measurement separately or simultaneously, providing ophthalmologists with a convenient, affordable three-in-one solution. In addition, the incredible accuracy and advanced features of the ERK-9100 allow doctors to collect advanced data about the eyes of patients more quickly, and provide a better quality of care.

HIGH ORDER ABERRATION MAP

The ERK-9100 wavefront technology precisely measures and maps the imperfections the eye. These imperfections are divided into lower-order aberrations, such as myopia, hyperopia, and astigmatism, and higher-order aberrations that affect night vision. The Hartmann-Shack sensor projects waves of light into the patient's eye and maps the waves that bounce back through the pupil detecting lower and higher-order aberrations. The data collected is precisely processed and then rendered as a Zernike Map.





RETRO-ILLUM MEASUREMENT MODE

The Retro-Illumination (RETRO-Illum) measurement mode helps the doctor observe corneal damages and perform perfect measurements in patients with the condition of ocular opacity, such as cataract or vitreous opacity.

INTRAOCULAR (IOL) MEASUREMENT MODE

The Ezer ERK-9100 allows accurate measurements even in cases that the light is reflected back to sensors due to the presence of an intraocular lens (IOL) or implant.

AUTO-SHOOTING FUNCTIONALITY

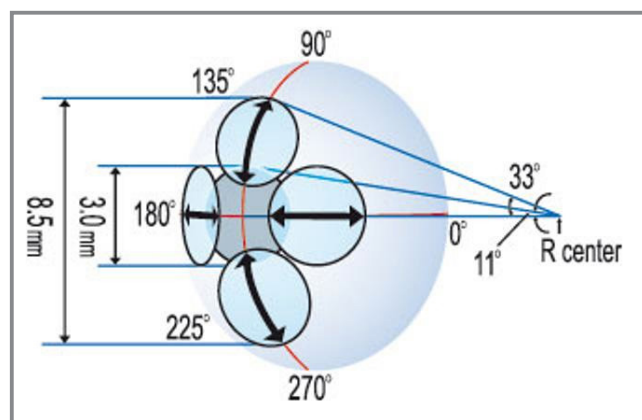
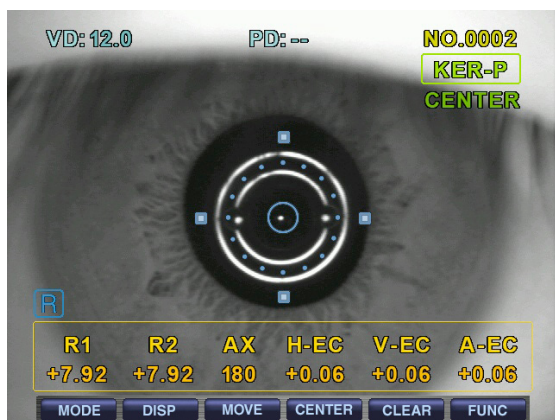
The Ezer ERK-9100 also provide auto-shooting functionality, which allows for the automatic capture of images when the eye is in-focus and stable. This allows physicians to concentrate on accurate measurements – instead of manually capturing images.

WIDE DIOPTRIC MEASUREMENT RANGE

The advanced ERK-9100 has one of the widest measurement ranges of any product on the market, and can accurately diagnose patients with dioptric measurements ranging from -30D to +25D. The flexibility of the ERK-9100 makes it a perfect tool for any doctor who regularly sees patients with extreme eye conditions.

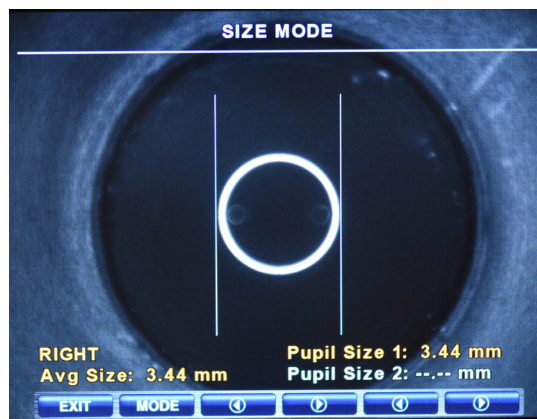
PERIPHERAL KERATOMETRY MEASUREMENT

ERK-9100 provides peripheral keratometry measurement data that can be greatly useful for fitting contact lenses.



RELIABLE KERATOMETRY MEASUREMENT

The Ezer ERK-9100 offers reliable keratometry data using 2 mire rings, and 2 LEDs.



PUPIL AND IRIS SIZE MEASUREMENT

The Ezer ERK-9100 can measure pupil, cornea, and iris size under 14mm in diameter by freezing the image.

ADJUSTABLE
UP/DOWN
65MM
Of Movement

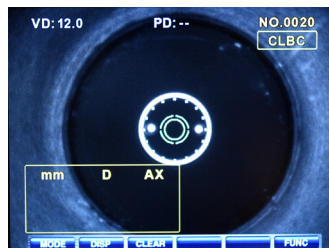
EASILY ADJUSTABLE CHIN REST

The design of the ERK-9100 has been built with the comfort of both the patient and user in mind. A comfortable, fully adjustable chin rest provides patients with comfort, even during extended sessions, and an easily swappable chin paper receptacle ensures that the device remains clean, even after multiple uses.



ONE-TOUCH LOCK

With the convenient one-touch lock, the main body can easily be fixed to the base.



CLBC (BASE CURVATURE)

Using the contact lens holder, you can measure the base curvature of contact lens.



6.5" COLOR TFT LCD

The 6.5" Color TFT LCD displays clear images and the image processing chip allows the LCD to show real time images.

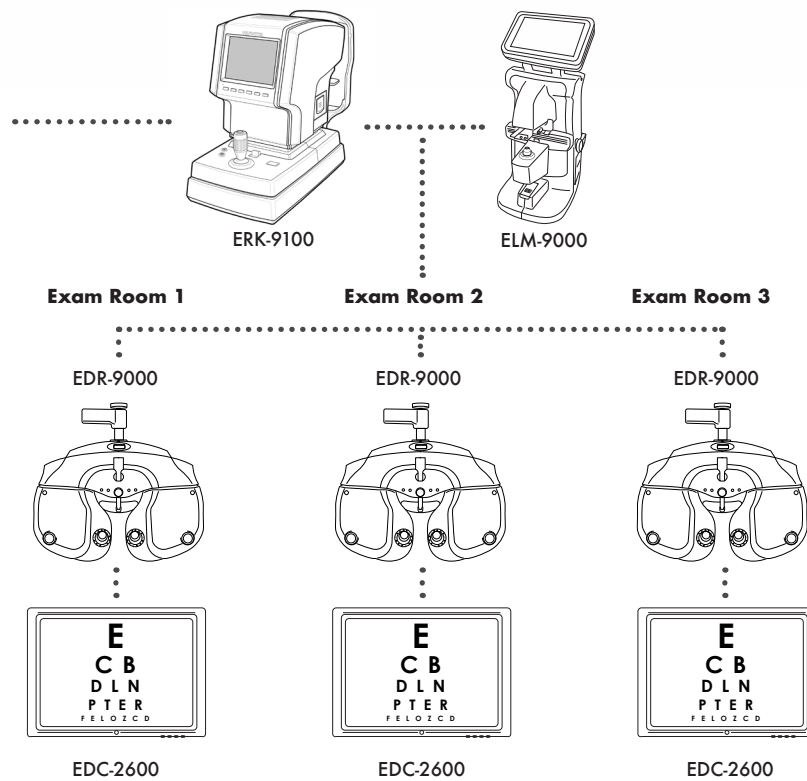
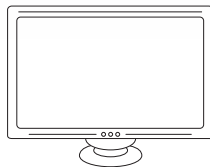
BUILT-IN PRINTER

The ERK-9100 also includes a built-in printer, which allows important measurements and patient information to be printed without a connection to another computer, printer or network. This allows doctors to quickly and easily get valuable patient data to other eye care professionals, providing faster turnaround times, and reducing patient inconvenience.

EASY INTEGRATION WITH OTHER DEVICES

RGB VIDEO OUTPUT

Connect to external monitor to maximize display via RGB



The Ezer ERK-9100 has been built specifically to link quickly and easily with computers and other networked Ezer devices, including Ezer chart projectors and digital refractors, among others. It also can be connected with an external monitor to show the examination result to customers. The ERK-9100 can be connected to multiple refraction systems easily and simply. The simple multi-networking helps to compose huge refraction centers easily.

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SPECIFICATIONS

Measurement Mode	Continuous Keratometry & Refractometry (K/R Mode) Refractometry (REF Mode), Keratometry (KER Mode) Keratometry Peripheral (KER-P Mode)Base Curve of Contact Lens (CLBC Mode)	Others	
Refractometry		Data Storage	Measured value of ten (10) times amount for each left/right eye
Vertex distance (VD)	0.0, 0.47, 0.53, 0.6 in (0.0, 12.0, 13.5, 15.0)	Built-In Printer	Line printer of heat printing type.
Sphere (SPH)	-30.00 ~ +25.00 (In case of VD = 0.5 in / 12mm)	Power Saving Function	As stopping to measure for about 3 minutes, the main power is shut. It returns as pushing buttons.
Cylinder (CYL)	-0.00 ~ +/-12.00D (0.12 / 0.25D Unit)	Display	TFT LCD Color Monitor of 6.5 inch
Axis (AX)	0 ~ 180° (Unit: 1°)	Electrical Power	AC100 ~ 240V, 50/60Hz
Cylinder Form	-, +, Mix	Current	1A-0.7A
Pupil Distance (PD)	0.4 ~ 3.34 in (10 ~ 85 mm)		
Minimum Pupil Diameter	Ø 0.08 in / 2.0 mm		
Keratometry			
Radius of Curvature	0.2 ~ 0.5 in (5.0 ~ 13.0 mm) 25.96D ~ 67.50D		
Corneal Power	(In case that the corneal equivalent refractive Power is 1.3375, 0.05/0.12/0.25D Unit)		
Corneal Astigmatism	0.00 ~ - 15.00D (Unit: 0.05/0.12/0.25D)		
Axis (AX)	0~180° (1° Unit)		
Corneal Diameter	0.08 ~ 0.5 in (2.0 ~ 14.0mm) Unit: 0.004 in / 0.1mm		



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