

BH"

# ERK-BH

Auto Refractor/Keratometer/Aberrometer



NEW EZER ERK-BH AUTOREFRACTOR KERATOMETER IS FAST, PRECISE,  
DURABLE, AND AFFORDABLE

ELI  
**EZER**  
THE EZER WAY OF LIFE



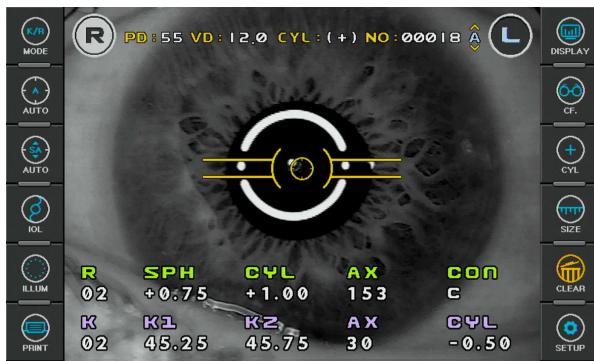
The Ezer ERK-BH automatic refractor-keratometer is a high-quality device, offering guaranteed measurement precision. One distinguishing feature of this device is its movable LCD display, providing convenient access to the patient. The ERK-BH Ezer Autorefractor + Keratometer builds on the excellent feature set and convenient operation of the Ezer ERK-H to deliver a high-end instrument with unparalleled attention to detail.

## FEATURES

- Auto-Refraction & Keratometry Measurement
- Peripheral Keratometry
- Comparison of Vision
- Size, Illum, IOL, K/R, REF, KER, Retro Illum Mode
- Intuitive Diameter Measurement
- Improved Display Function for Retro illum Mode
- Black/White User Interface Option
- IOL Measurement
- Semi-Auto Pupil Tracking
- Simulated Near Vision
- Convenient Control by TFT-LCD Touch Screen
- Tilt & Swivel
- Instant Display Data
- Motorized Chinrest
- Enhanced Joystick Performance
- Printer with Auto Cutter Function
- Compatible Connection to Various Systems



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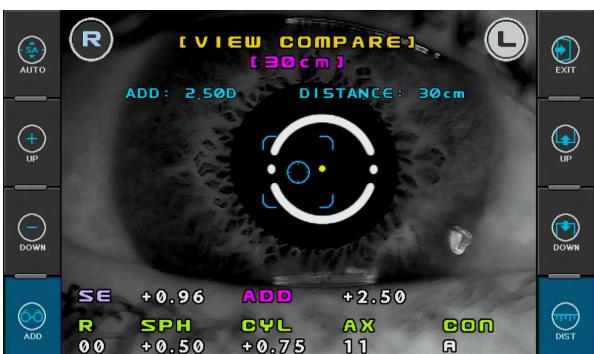
## AUTO-REFRACTION & KERATOMETRY MEASUREMENT

After a patient is adjusted comfortably using the motorized chinrest, clinicians can take advantage of an enhanced no-load joystick for alignment of the eye. Once aligned, the ERK-BH performs auto-refraction and keratometry with just one press of the joystick button. The ERK-BH can get precise measurements on even the most myopic or hyperopic of patients, with its expansive dioptic measurement range (-30.00 D to +25.00 D). By directing the patient's gaze to the peripheral fixation lamps, peripheral corneal curvature measurements can be obtained with the tap of a button. The ERK-BH has an equally exceptional range for corneal radius of curvature measurements (5.0 mm to 13.0 mm).



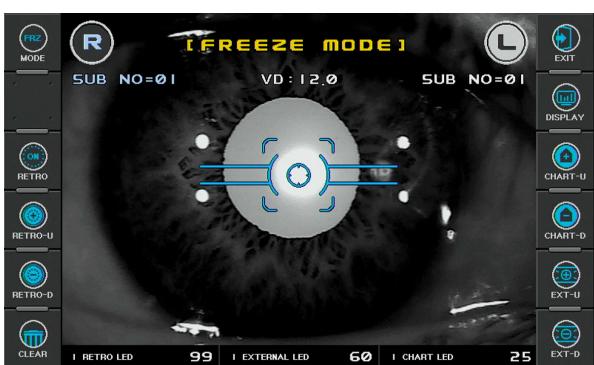
## PERIPHERAL KERATOMETRY

Peripheral corneal curvatures can be measured by having the patient look at the peripheral fixation lamps. Measuring the corneal periphery helps with the evaluation of irregular astigmatism, and aids in contact lens fitting. There are two lighting modes for the peripheral fixation lamps: AUTO / MANU.



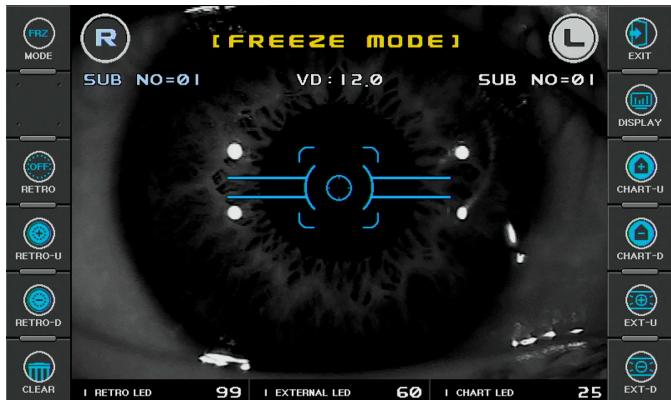
## COMPARISON OF VISION

The CF(Comparison of vision function) mode allows the examinee to experience the corrected vision by applying additional degrees. If the examinee is not presbyopia or primitive, it may be difficult to feel the effect.



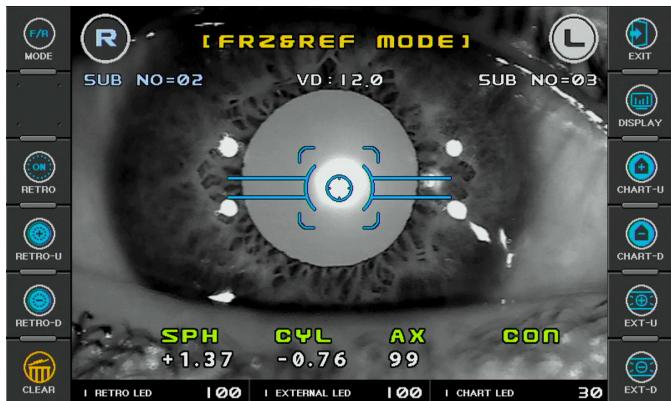
## INTUITIVE DIAMETER MEASUREMENT

The built-in software of the ERK-BH enables easy diameter measurements using the freeze mode, where measurements of the diameter of the cornea, pupil or hard contact lenses worn by the patient can be taken. By simply touching and dragging the screen with your finger, these measurements are calculated exactly.



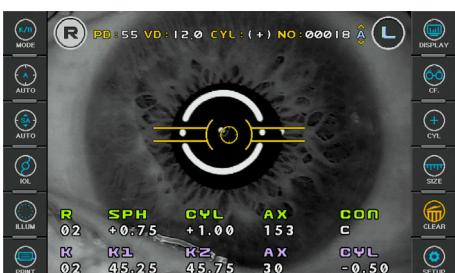
## RETRO ILLUM MODE

The device's improved retroillumination mode helps to expose damage to hard contact lenses. In addition, this device has built-in calculations for patients with intraocular lenses or cataracts.

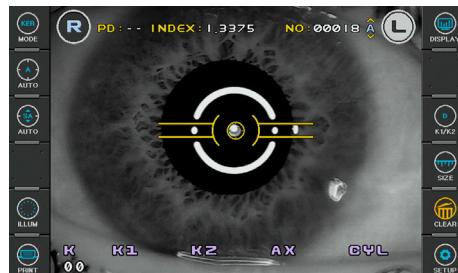


## ILLUM MODE

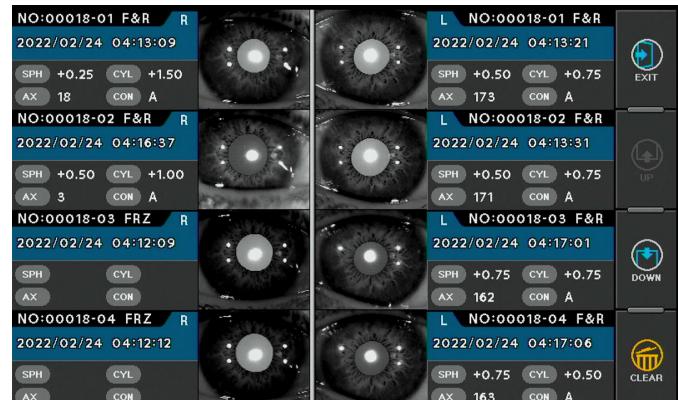
By directing light into the pupil using ILLUM mode, cataracts can be evaluated, as can the surface of contact lenses.



## K/R MODE

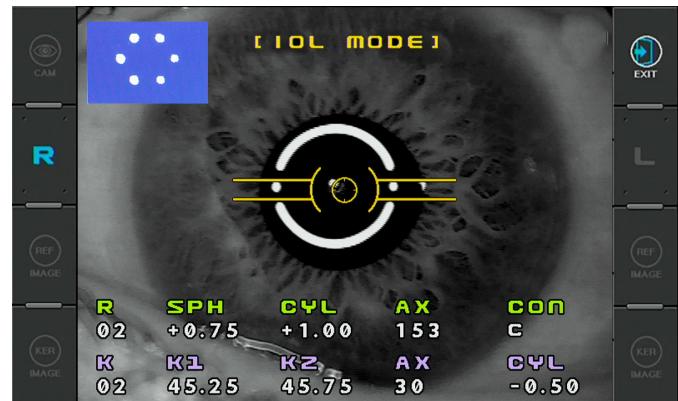


## KER MODE



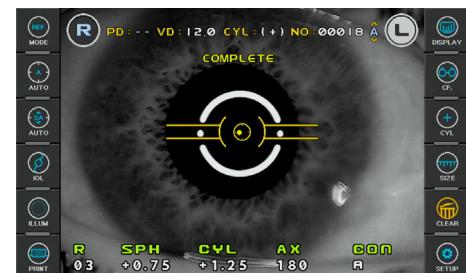
## IMPROVED DISPLAY FUNCTION

Ten images and results can be checked simultaneously through an enhanced display control system.



## IOL MODE

To make measurements of a cataract patient easier, simply turn on the "IOL" function.



## REF MODE



## INSTANT DISPLAY DATA

The data from the ten most recent exams can be uploaded with the touch of a button, and a built-in printer allows users make print records during the examination. Data can then easily be transferred to other devices using a USB or RS-232 cable.

## INTERACTIVE SETUP CHANGE

Simply touch the icon on the screen to see any changed settings. The touchscreen supports interactive setting changes quickly and conveniently to save the user precious time.

## COMPATIBLE CONNECTION TO VARIOUS SYSTEMS

The ERK-BH can connect to several other digital ophthalmic instruments by Ezer to serve as the hub of the digitally-enabled exam room. Data can be entered manually or transferred directly from compatible devices, and the control box can operate many of the different functions on each device.



## USER FRIENDLY FEATURES



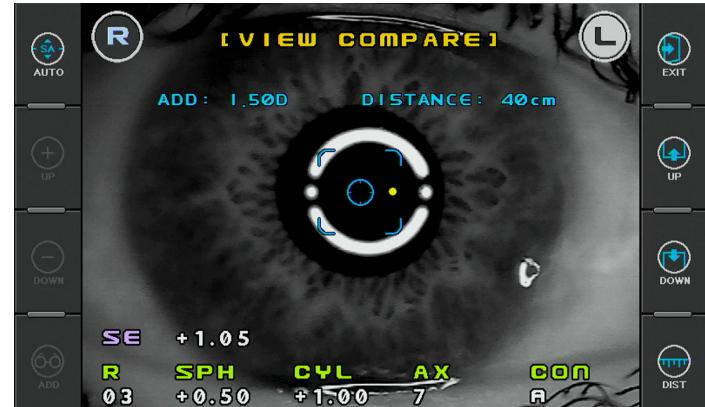
### TOUCH SCREEN, TILT & SWIVEL

Operation and setup are a breeze with the ERK-BH's expanded 7-inch (800x480) LCD touchscreen monitor. Users can avoid neck and back strain with the adjustable touchscreen. It swivels up and down by 180° and left and right from 135–145°. By tapping the appropriate icon, the user can change various settings quickly and easily.



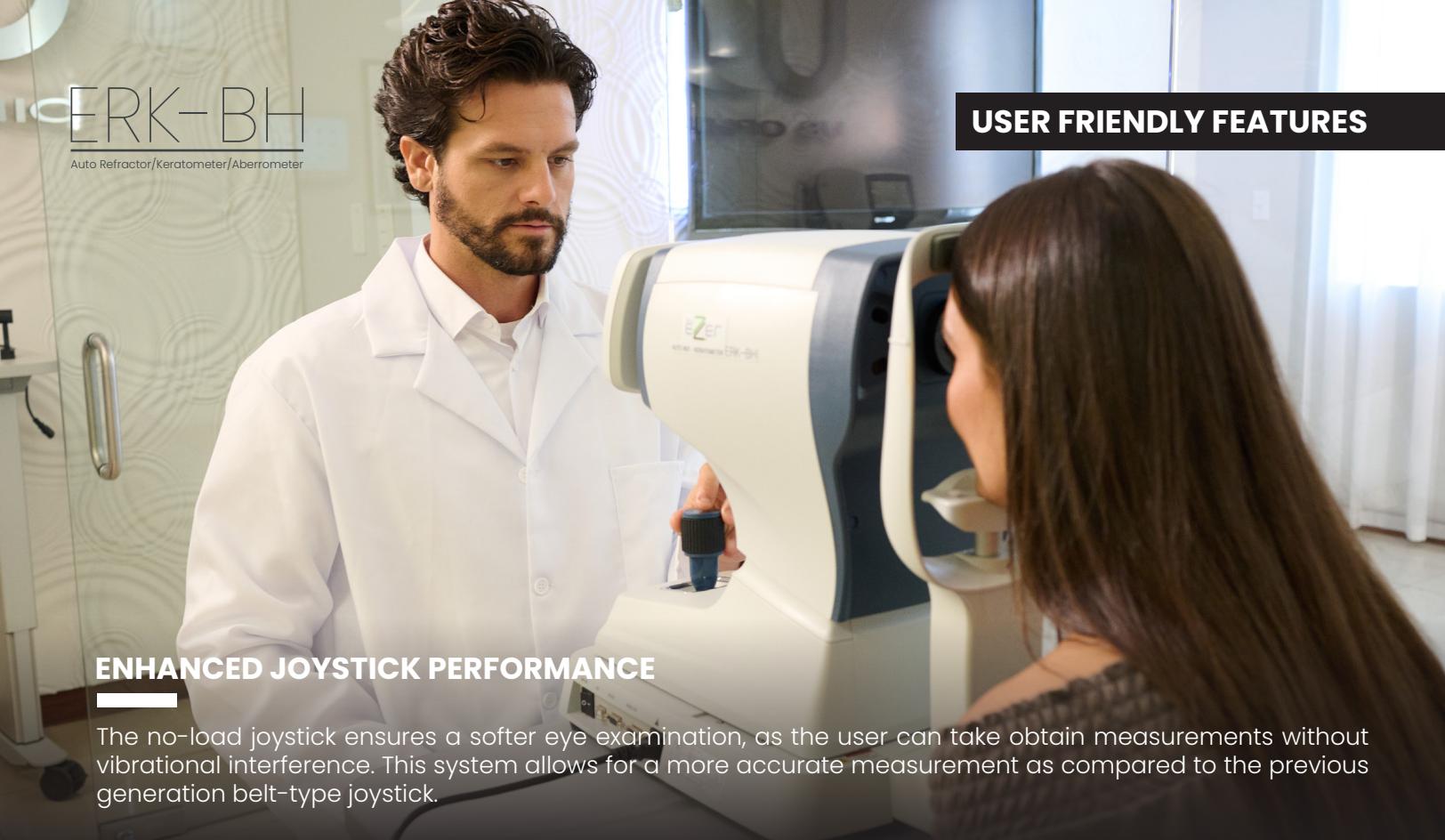
### SEMI-AUTO PUPIL TRACKING

The equipment can perform automatic height adjustments based on pupil position, reducing exam time. With the click of a button, the user can switch from Auto to Manual tracking mode. Measurement convenience and accuracy are increased through the addition of position guidance, designed to easily track the eye.



### SIMULATING NEAR VISION

The user can easily determine if a patient requires an add through a vision simulation. The patient can compare the effects before and after the correction through a near vision simulation.



### ENHANCED JOYSTICK PERFORMANCE

The no-load joystick ensures a softer eye examination, as the user can take obtain measurements without vibrational interference. This system allows for a more accurate measurement as compared to the previous generation belt-type joystick.



### MOTORIZED CHINREST

The chinrest is motorized and can be adjusted by the operator using a conveniently positioned switch. This design makes for simple adjustment of the chinrest when switching from patient to patient. The motor is controlled easily by pressing the switch up or down.

### PRINTER WITH AUTO CUTTER FUNCTION

The ERK-BH provides an immediate and complete printout of measurement results. The auto printer cutter is included for this added convenience. The economy printer mode can be used to save paper by displaying results in a more compact manner by minimizing print size.





## SPECIFICATIONS

### MEASUREMENT MODES

K/R Mode	Continuous Keratometry and Autorefraction
REF Mode	Autorefraction
KER Mode	Keratometry
CLBC Mode	Contact Lens Base Curve Measurement
K(P) Mode	Peripheral Keratometry

### KERATOMETRY

Radius of Curvature	0.2 ~ 0.5in 5.0 to 13.0 mm (0.2 to 0.5 in) [Increments: 0.01 mm/0.0004 in]
Corneal Power	25.96 ~ 67.50D (when cornea equivalent refractive index is 1.3375) (Increments : 0.05/0.12/0.25D)
Corneal Astigmatism	0.00 ~ -15.00D (Increments : 0.05/0.12/0.25D)
Axis	1 ~ 180° (Increments : 1°)

### ENVIRONMENTAL REQUIREMENTS

Operation	Temperature: +10 to +40°C Humidity: 30 to 85% RH Atmospheric pressure: 70 to 106 kPa
Storage & Transportation	Temperature: -10 to +55°C Humidity: 10 to 95% RH Atmospheric pressure: 50 to 106 kPa

### AUTOREFRACTION

Vertex Distance (VD)	0.0/12.0/13.5/15.0
Sphere (SPH)	-25.00 to +22.00D (when VD = 12 mm) [Increments: 0.12 or 0.25 D]
Cylinder (CYL)	0.00 to ±10.00D (Increments : 0.12 or 0.25 D)
Axis (AX)	1 to 180° (Increments: 1°)
Cylinder Form	-, +, MIX
Pupil Distance (PD)	10 to 88 mm (0.4 to 3.5 in)
Minimum Pupil Diameter	Ø 2.0 mm (Ø 0.08 in)

### OTHERS

Corneal Diameter	2.0 to 14.0 mm (0.08 to 0.55 in) [Increments: 0.1 mm/0.004 in]
Memory of Data	10 measured values for each eye
Internal Printer	Thermal line printer with auto-cutter function
Monitor	17.78 cm (7 in) TFT-LCD (800 × 480 pixels tilting/swivel, touchscreen function)
Power supply	AC 100~240V, 50/60Hz
Dimensions	Approximately 260 (W) × 500 (D) × 450 (H) mm (11 (W) × 20 (D) × 18 (H) in)
Weight	Approximately 20 kg (44 lb)