

# EAB 1

## Ultrasonic A/B Scanner for Ophthalmology



## Professional Ultrasound

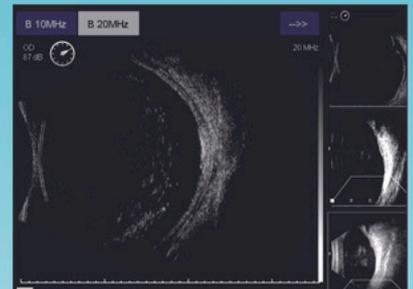
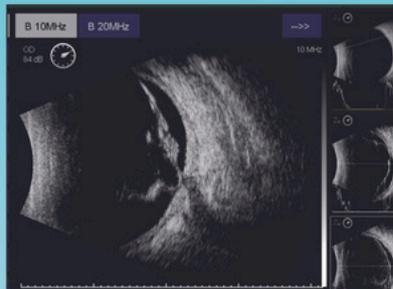
### B-Scan Enhanced Visibility and User-friendliness

Image/video buffer slots for immediate click-and-check, review and comparison

Images/videos captured in real time and saved in lossless format (.bmp & .avi)

Zooming and scan depth adjustment for better ocular disease observation

Vitreous-Enhanced Mode improves visibility at vitreous body

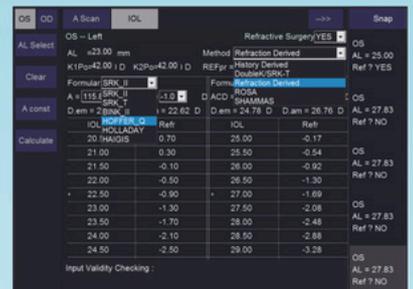


### A-Scan & IOL Calculation Enhancements and Tight Integration

Biometry buffer slots for immediate click-and-check, review and comparison

Improved accuracy and reliability with Average and Standard Deviation for up to 10 scans per exam

6 popular IOL formulae and 5 Post-refractive IOL formulae available

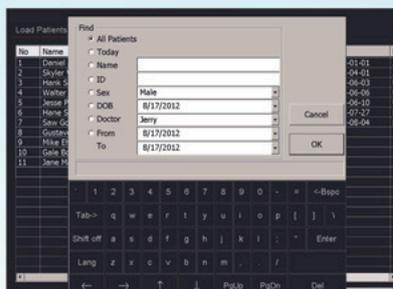


### Full Reporting Capabilities

Full report integrating A-scan/IOL results, B-scan images and doctor's comments with customized dictionary of symptom entries

### Comprehensive Data Archiving and Management

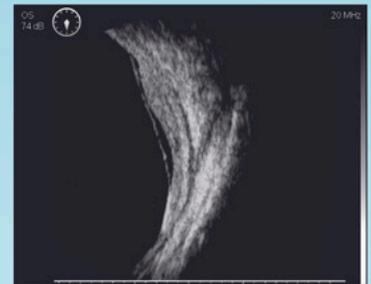
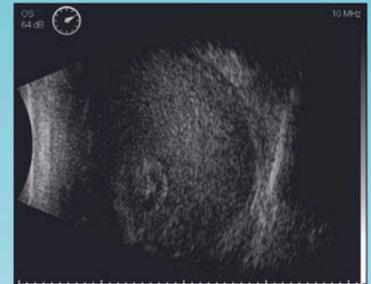
Simple UI allows users to load, search, print, etc. Unlimited storage capacity for over 20,000 exams (8 lossless images per exam)



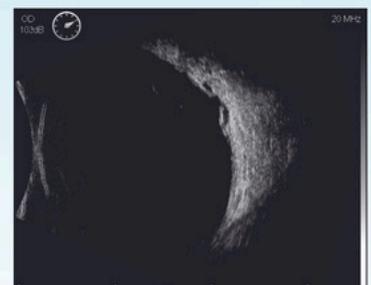
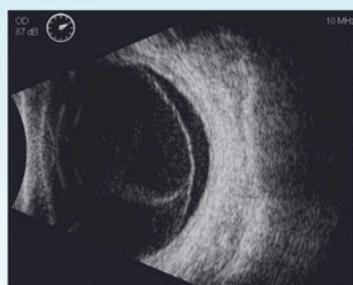
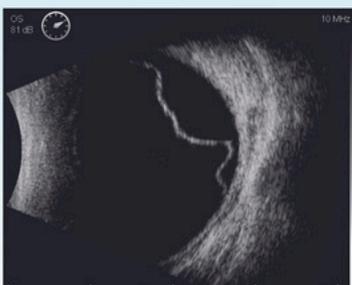
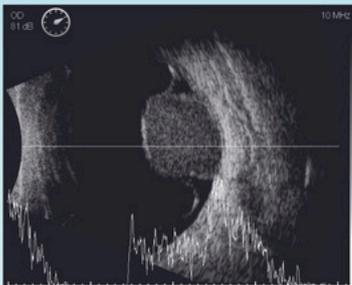
# An Ophthalmic Tablet with Ultrasound you can Watch and Touch

## Features

- High Definition 20MHz B-scan Image
- High Resolution LCD touch screen
- Image/video snapped and stored in real time in multiple buffer slots for immediate comparison and review
- Multiple TGC options for operator's preference including vitreous-enhanced mode
- Editable clinical report with A-scan/IOL results, B-scan images, and textual comments with configurable entries
- Reports in .PDF format for sharing and print-out
- Compatibility with graph/text printer
- Diverse connections via HDMI and USB 2.0 ports
- HDMI interface for double-screen showcase



## Clinical Gallery



## SPECIFICATIONS:

### B-Scan

- Ultrasound Probes 10MHz B-Scan Probe  
20MHz B-Scan Probe (Optional)
- Axial Resolution 10MHz B-Scan:  $\leq 0.1\text{mm}$   
20MHz B-Scan:  $\leq 0.08\text{mm}$
- Lateral Resolution 10MHz B-Scan:  $\leq 0.2\text{mm}$   
20MHz B-Scan:  $\leq 0.15\text{mm}$
- Scan Depth 10MHz: 28mm — 60mm  
20MHz: 19mm — 40mm  
6-Step Selectable
- Scan Angle 53° (Sector Scanning)
- Cineloop 10s/100 frames with dynamic replay
- Image Acquisition B-Scan images  
Snapped & Saved in real-time  
without any limitation  
256 Levels  
1-105dB adjustable  
Default  
Vitreous-Enhanced Mode  
Customized
- Gray Scale A Scan Overlay on B Scan Images
- Gain 8
- TGC Distance, Area Volume, Angle
- B+A Mode
- Color Codes
- Measurements
- Annotation
- Magnification

### IOL Calculation

- General SRK-II SRK-T  
BINK-II HOLLADAY  
HOFFER-Q HAIGIS
- Post-Refractive History-derived Double K/SRK-T  
Refraction-derived ROSA  
SHAMMAS

### Biometric A-Scan

- Probe 10 MHz with fixation Red LED light
- Gain 1-60dB
- Measuring Method Contact or Immersion
- Measuring Range AL Range: 0mm-40mm
- Measuring Accuracy  $\pm 0.05\text{mm}$
- Measuring Mode Phakic (Normal), Aphakic, Cataract,  
Dense Cataract, Pseudophakic
- Measurements Axial length, Anterior chamber depth,  
Lens thickness, Vitreous length,  
Configurable Tissue velocities.
- Calibration Method Automatic calibration through calibration  
cylinder (dummy eye).

### General

- Display High-Resolution 12.1" LCD
- Printer Compatibility Graph/Text Printer and Video Printer (PAL)
- Interface Video-Out (PAL)  
HDMI  
USB 2.0 Ports
- Operations Touch Screen  
Wireless Mouse & Keyboard  
Footswitch  
500GB  
Folder/Report Sharing  
AC 100~240V, 50/60Hz  
20MHz B-Scan Probe  
Eye Cup  
Immersion Shell  
Video Thermal Printer  
DICOM 3.0 Software Package
- Operating System Windows



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