

# EAP 1

## Ultrasonic Biometer for Ophthalmology



# Dedicated in Ophthalmology

## Features

- Accurate measurements under both Contact and Immersion modes
- Extreme ease of use with touch screen
- Automatic / manual modes
- Auto gain control
- Built-in thermal printer
- Portable & ergonomic design



# PROFESSIONAL ULTRASOUND



A-Biometer

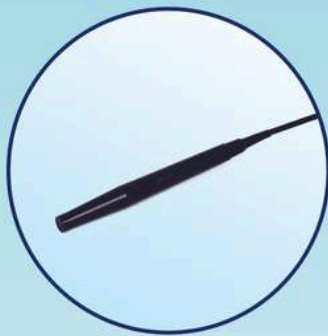


Pachymeter

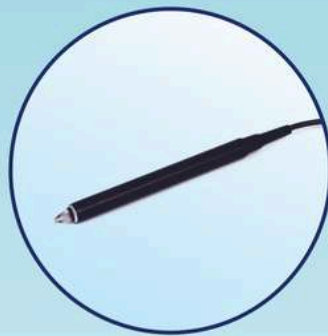


A-Biometer / Pachymeter

## ACCESSORIES



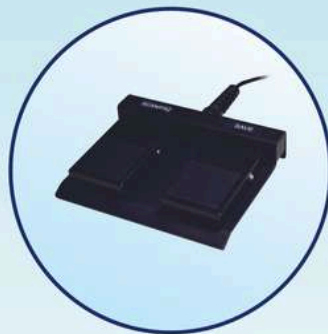
10MHz A-probe



20MHz straight P-probe



20MHz angled P-probe



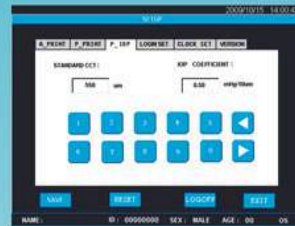
Footswitch



## PACHYMETRY



**Accurate Results**  
Automatic reading at single or multiple points for corneal thickness; Multiple measurements at single point for higher reliability; Higher accuracy enabled by averaging readings.



**IOP Adjustment**  
Intraocular pressure adjustment provides reference for tonometer measurement; Parameter adjustability based on user's experience.

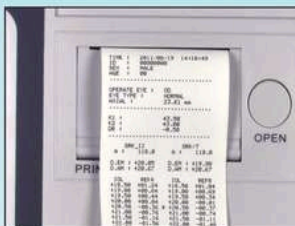
## MANAGEMENT



**Patient Management**  
Built-in data archiving capability for storage of up to 180 patient records.



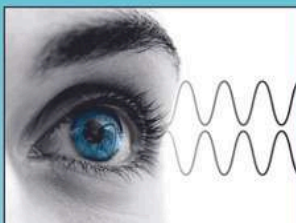
**User-defined Preference**  
Users are free to define acoustic velocities, IOP parameters and printing options.



**Instant Printout**  
Single click print-out enabled by in-built thermal printer; User-defined print-out options.



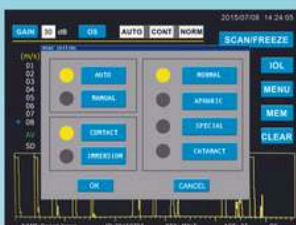
## A-BIOMETRY



**Precise & Accurate**  
A-Scan precision and accuracy, under both cataract and immersion mode, are ensured by MEDA's mature technology and professional expertise in ophthalmic field.



**Reliable**  
Up to 8 groups of readings automatically measured per each group, with averaging and standard deviation for a higher level of reliability.



**Comprehensive**  
Automatic measurements for 4 different eye types: Normal, Cataract, Aphakic and Special. Manual measurement also available.



**Convenient**  
Touch screen and footswitch equipped to enable smooth operations.

## IOL



**IOL Formulae**  
6 popular formulae for IOL calculation;  
5 major formulae for post-refractive IOL calculation.



**Intuitive Interface**  
Instant switch among different formulae;  
Dual-formula display for direct result comparison.



**Simple Operations**  
Higher accessibility of database;  
Single-click for instant print-out.



**Tight Integration**  
Easy access between A-scan and IOL;  
Axial length automatically imported from A-scan measurement.

## SPECIFICATIONS:

- Probe: 10 MHz with fixation Red LED light
- Total Gain: 100dB with an adjustable range of 0~50dB
- Biometry Accuracy:  $\pm 0.05\text{mm}$
- Resolution: 0.01mm
- Measuring Range: 0mm ~ 40mm
- Measuring Mode: Contact or Immersion
- Measuring Parameters: Anterior chamber depth, Lens thickness, Vitreous length, Configurable velocities
- Measuring Modes: Phakic ( Normal ), Aphakic, Cataract, Dense Cataract, Pseudophakic
- 8 Groups of Readings with Averaging & Standard Deviation
- Calibration method: Automatic Calibration Through Calibration Cylinder ( Dummy Eye )

### Standard Configuration

- 10MHz A probe
- 20MHz P probe
- Footswitch
- Test Object
- AC Adapter

### Optional

- Immersion Shell

### 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            |                |

### Pachymeter

- Probe Frequency: 15~20MHz
- Display Resolution: 1 $\mu\text{m}$
- Biometry Accuracy:  $\pm 5\mu\text{m}$
- Measuring Scope: 230~1200 $\mu\text{m}$
- Multiple Corneal Maps with Graphical Display

### General

- Power Supply: AC 100 ~ 240V, 50/60Hz, 50VA
- Dimension: 337mm x 177mm x 155mm ( L x W x H )
- Weight: 1.7Kg



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