





# **BIOMETRIC SCANNERS**



# **A-SCAN**

# **OCULAR BIOMETRY**

/IMPLANTS, CATARACT SURGERY/



### SPECIFICATIONS:

Probe frequency: 12 MHz - OA-12

Range of scan: 40 mm

Clinical resolution: 0.1 mm

Electronic resolution: -/+ 0.01 mm

### **FEATURES:**

- Complete and quick biometry: AXL, AC. LENS, VITR
- Measurement of all eye types: normal, cataract, dense cataract, aphakic, pseudoaphakic /PMMA, ACRYLATE, SILICONE/, silicone oil vitreous
- IOL six formulas: SRK II, SRK T, Holladay, Hoffer-Q, Binkhorst II, Haggis
- Post refractive formulas: Double-K SRKT, Latkany /Flat-K SRKT/, Latkany /avg-K SRKT/, Masket
- · Contact and immersion methods



## **B-SCAN**

## INTERIOR VISUALISATION

/RETINA, NERVE, EYEBALL/



### SPECIFICATIONS:

- Probe frequency: 12 MHz (15 MHz) OB-12
- Scanning angle: 55°
- Range of scan: 20-60 mm
- 256 Levels Gray Scale
- Axial clinical resolution: 0.12 mm
- Lateral clinical resolution: 0.3 mm
- Display modes: B, B+A, B+B
- · A-mode for selected line
- · Digital multimode image processing
- Measurements and calculation (2 distances, area, length, angle)
- Cineloop



### **P-SCAN**

## **PACHYMETER**

/CORNEA THICKNESS/



### SPECIFICATIONS:

- Probe frequency: 20 MHz OP-20
- · 400 MHz sampling rate
- 1640 m/s default speed (adjustment range from 1400 to 2000 m/s)
- Range from 220 μm to 1100 μm
- Accuracy: ± ≤ 2 µm
- Resolution: I μm

#### **FEATURES:**

- Ouick measurements of thickness for all corneal types
  - measurement of thickness at arbitrarily selected points of the corneal surface
  - automatic and manual measurements
  - calculation of the mean; standard deviation of the measured thickness
  - ability for rejecting uncorrected measurements
- Intra-ocular pressure (IOP) calculations with measuring and/or manual correction
- Five IOP correction formulas: (Kohlhas/Shah, Herndon/Doughty, Whitacre et al., Ehlers et al., custom - own)







### **GENERAL PROPERTIES**

- Touch Screen
  - easy, ergonomic and user-friendly operation via displayed menu
  - virtual keyboard for entering patient data, etc.
- Color LCD 7" display, 800x480 pixel
- Ten (10) user profiles
- Recording of images in external USB-Pendrive memory
- Internal thermal small printer
- Easy firmware upgrade via USB port



# ECHOSON

