



Sonomed Escalon™



PACSCAN 300 SERIES  
DIGITAL BIOMETRIC RULER

## PacScan 300 Series Digital Biometric Ruler

Over 30 years of leadership in ophthalmic ultrasound brings you the PacScan 300 series, portable, digital biometric ruler.

### **Sonomed Escalon Accuracy**

A combination of high frequency, low noise probes and proprietary algorithms enables scan capture immediately upon appplanation along the visual axis with precise measurement of corneal thickness, ACD, lens thickness, and axial length.

### **Sonomed Escalon Usability**

Intuitive interface, customized set-up, precise algorithms, and advanced hardware designs enable quick and easy examination of different eye types.

### **Sonomed Escalon Reliability**

Consistent and accurate results, time after time, year after year, we build unparalleled quality into every ultrasound system. Sonomed Escalon is still supporting instruments manufactured over 20 years ago.

# Features:

Touch screen for easy operation  
Easy automatic calibration functions  
Sonomed Escalon dependability and accuracy

## 1. General:

### Models:

- 300A A-Scan Only
- 300P Pachymeter Only
- 300AP A-Scan/Pachymeter

### PacScan 300 Series Features:

- Touch Screen User Interface
- Large High Contrast LCD
- 5 Programmable User Profiles
- Portable Design Weighing 6 lbs (3 kg)
- Scan Viewer Archiving Software
- Power Requirements:
  - PacScan System: 5W/90-250VAC
  - Optional Printer: 9W/90-250VAC

## 2. A-Scan:

### Scan Modes:

- Direct Contact/Immersion
- 5 Examination Modes:
  - Cataract
  - Dense Cataract
  - Aphakic
  - Pseudophakic (5 settings)
  - Manual
- Review Screen for A-Scan Measurement Review Capability

### Measurements:

- ACD, Lens, Vitreous, and AXL
- Individual Zone Velocities
- Average with Standard Deviations

### Formulas:

- Available IOL Formulas:
  - Binkhorst
  - Regression-II
  - Theoretic/T
  - Holladay
  - Hoffer-Q
  - Haigis
- Post-Refractive IOL Formulas:
  - Latkany Myopic Regression
  - Latkany Hyperopic
  - Aramberri Double-K

### Accuracy:

- Clinical Accuracy  $\pm 0.1\text{mm}$
- Electrical Accuracy  $\pm 0.0484\text{mm}$

### A-Scan Probe Styles:

- Standard A-Scan Probe for Hand-Held, Immersion, or Slit Lamp Mounted Application
- Soft-Touch A-Scan Probe for Hand-Held Use Minimizing Corneal Compression

## 3. Pachymeter:

### Scan Modes:

- Map 1: 1 Point/Single Scan
- Map 2: 1 Point/Multiple Scans
- Map 3: 5 Point/Single Scan
- Map 4: 5 Point/Multiple Scans
- CCT Corrected IOP

### Measurements:

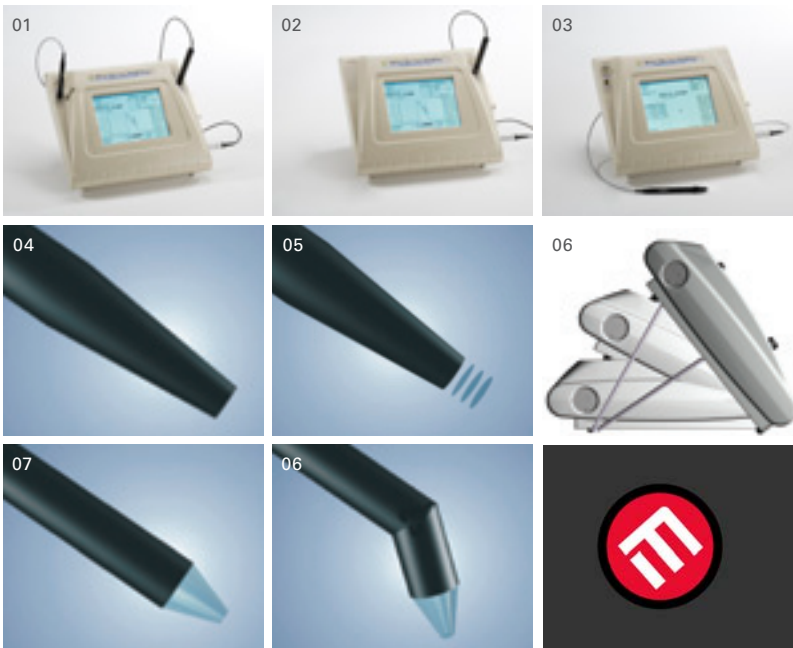
- Variable Corneal Velocity
- Automatic Sensing Algorithm
- Measure Review Mode
- 256 Scan Average with Standard Deviation
- Measurement Accuracy Test ( $\pm 1$  Micron)

### Specifications:

- 125-1000 Micron Range
- Clinical Accuracy  $\pm 5$  Microns
- Electronic Accuracy  $\pm 1$  Micron

### Pachymeter Probe Styles:

- 20 MHz Straight Pachymeter Probe for Use When Patient is in Sitting Position
- 20 MHz 45 Degree Angled Pachymeter Probe for Use When Patient is in Supine Position



- 01 Model 300AP A-Scan / Pachymeter
- 02 Model 300A A-Scan Only
- 03 Model 300P Pachymeter Only
- 04 Direct Contact A-Scan Probe
- 05 Soft-Touch A-Scan Probe
- 06 Adjustable Legs for Angled Viewing from 0 to 45 Degrees
- 07 20 MHz Straight Pachymeter Probe
- 08 20 MHz 45 Degree Angled Pachymeter Probe



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