



Sonomed Escalon™

PACSCAN PLUS  
DIGITAL BIOMETRIC RULER



## PacScan 300 Plus With New Features in Digital Biometric Ruler

Sonomed Escalon, the brand of choice for ophthalmologists worldwide with products that continue to define the standards in diagnostic ultrasound.

### **Sonomed Escalon Accuracy**

A combination of high frequency, low noise probes and proprietary algorithms enables scan capture immediately upon applanation 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.

# 2-in-1 Features:

Automatic Mode  
Measure Review  
10 Lens Database

Calculated Lens Results  
Comparative IOL Review

## 1. General:

### Models:

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

### PacScan 300 Plus Features:

- High Contrast Color Touch Screen
- User Friendly Graphical Interface
- 5 Programmable User Profiles
- Scan Viewer Archiving Software
- USB Interface
- SD Memory Card
- Built-In Thermal Printer
- Storage Compartment
- Portable Design Weighing 6 lbs (2.7kg)
- Power Requirements:
  - PacScan System: 100-240 VAC; 50/60 Hz
  - Optional Printer: 100-240 VAC; 50/60 Hz

## 2. 300A+ A-Scan:

### Scan Modes:

- Direct Contact/Immersion
- 5 Examination Modes:
  - Cataract
  - Dense Cataract
  - Aphakic
  - Pseudophakic (5 settings)
  - 4-Gate Manual

### Measurements:

- ACD, Lens, Vitreous, Axial, Average Axial, Standard Deviation
- Individual Zone Velocities
- Automatic Sensing Algorithm
- Measure Review
- Auto-Calibration

### Specifications:

- Clinical Accuracy:  $\pm 0.10\text{mm}$
- Electrical Accuracy:  $\pm 0.023\text{mm}$
- Lens Calculations in 0.25D Increments
- 10-Lens Database

### Formulas:

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

### 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 (300AP+):

### Scan Modes:

- Map 1: Single Point, Single-Scan
- Map 2: Single Point, Multi-Scan
- Map 3: 5 Points, Single-Scan
- Map 4: 5 Points, Multi-Scan
- CCT, IOP Correction
- Calibration

### Measurements:

- Adjustable Corneal Velocity
- Automatic Sensing Algorithm
- Measure Review
- 64 Scans Averaged with Standard Deviation
- Internal Accuracy Test
- Auto Calibration

### Specifications:

- Range: 125-1000 Microns
- Clinical Accuracy:  $\pm 5$  Microns
- Electronic Accuracy:  $\pm 1$  Microns
- 20MHz Direct Contact Probe

### 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 PacScan Plus
- 02 Model 300A+ 034
- 03 Direct Contact A-Scan Probe
- 04 Soft-Touch A-Scan Probe
- 05 20 MHz Straight Pachymeter Probe
- 06 20 MHz 45 Degree Angled Pachymeter Probe