

## 5500 SERIES

DIGITAL BIOMETRIC RULER

### Sonomed Reliability!

Our engineering and sales staff have over 27 years experience manufacturing quality Ophthalmic ultrasound systems.

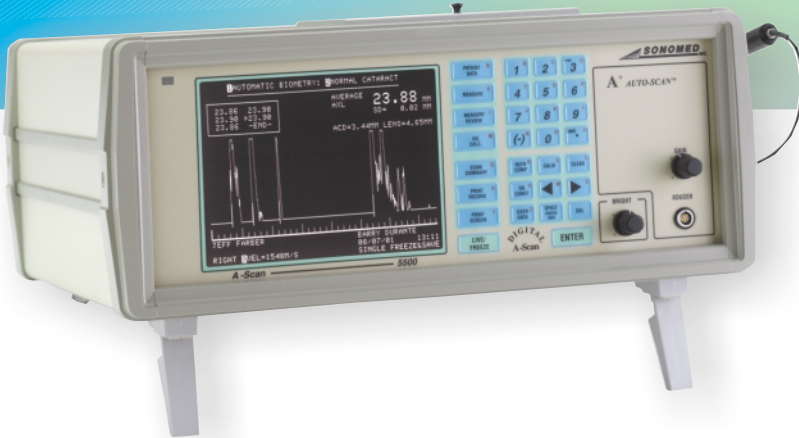
### Sonomed Accuracy!

A combination of a high frequency, low noise probe and a fast precise algorithm enables scan capture immediately upon application along the visual axis.

### Sonomed Dependability!

Sonomed is still supporting instruments manufactured over 20 years ago. We stand behind our products for the life of the equipment.

*Twenty seven years of leadership in ophthalmic ultrasound brings you the state-of-the art 300 series, portable, digital biometric ruler.*



### A5500

*Fast, Accurate, and easy to learn.*

- A high frequency, low noise focused probe, with an internal fixation light assures precise measurements. A fast algorithm freezes the scan “instantly” upon **applanation** along the visual axis lessening the possibility of compression. Standard deviations in the range of 0.04mm are routinely achieved.
- Large 7” Monitor display for easy viewing.
- Patented “Soft-Touch” probe assures low pressure hand-held contact reducing the need for chin rest and reclined immersion measurements.



### B5500

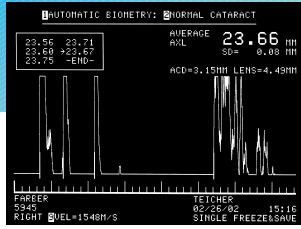
*Compact and affordable*

- Portability is essential for practices with multiple offices, for hospital use in the operating room and for satellite offices.
- One of the lowest priced full function B-scans available including electronic measurement capabilities for area and distance to an accuracy of 0.12mm.
- Large 7” Monitor display with selectable “vector” A-scan
- includes a high resolution external video printer for hard copy records
- Sealed, Oil-filled B-scan probe provides smooth scanning with virtually no audible sound..



### A/B5500

- Combines the accuracy and portability of the A-5500 A-scan with all the functions of the B-5500 B-scan in one unit.
- Switch from A-scan biometry to diagnostic B-scan with the press of a button.
- Includes a high resolution external video printer for hard copy records.



## A5500

### A-Scan

**Probes:** 10MHz, focused, internal fixation; solid-tip, Soft-Touch, or immersion.

**Formulas:** Choice of 3 from Holladay, Regression-II, Theoretic/T, Binkhorst and Hoffer-Q

**Modes:** Automatic, Manual and Diagnostic; Cataract, Dense Cataract, Aphakic, Pseudophakic

**Measure:** ACD, Lens, Vitreous and Axial Length.

**Review:** Stored A-scan patterns, A-scan measurements and statistics.

**Statistics:** Average, Standard Deviation, Range, and Maximum Difference from average.

**Calculations:** 2 tables of 9 operator selected IOL powers vs. refraction. Personalized A-constants and Surgeon Factors.

**Displays:** Multiple screens available for tabled, summarized and compared calculations.

**Memory:** Stores 5 scans and measurements, selected formula, IOL constants and users name.

**Accuracy:** Electronic  $\pm 0.0375$ mm. Clinical  $\pm 0.1$ mm

**Range:** Automatic Mode 18 - 33mm. Manual Mode 0.5 - 35mm.

**Calibration:** Automatic with built-in calibration cylinder.

**Report Data:** Patients Name, ID#, Eye examined, K-readings, Users Name, Date & Time.

### A-Scan Options:

- Immersion Capability
- Alphanumeric Keyboard Controller
- Soft-Touch A-scan Probe
- Adjustable Tilt Handle



## B5500

### B-Scan

**Probe:** 10MHz, focused, 30 frames/sec., 128 lines, (256 interpolated).

**Measurements:** Distance: Axial 0.12mm. Lateral 0.24mm.

**Area:** 0.12mm<sup>2</sup>

**Amplifiers:** Logarithmic, Linear, and S-Curve.

**Magnification:** Continuous Zoom, and Pan, Joy Stick controlled from 0.5x 2.0x

**Resolution:** 1024 x 480 pixels, with optimal tissue resolution of 0.15mm. axial and 0.3mm. lateral.

**Processing:** Reject below level, Saturate above or selected level, enhance contour and texture, and smooth image.

**Memory:** Dual for real-time and processed image.

**Freeze:** Foot pedal or control panel activated.

**Image:** B-scan with simultaneous selectable vector A-scan.

**Gray Scale:** 128 Levels.

**Display:** 60° sector fan, Gray Scale, B/a presentation (B emphasized) or A/b (A emphasized), Gain, Electronic Scale, TVG, Amplifier, OD/OS, Velocity, Probe Orientation, Patient Name, Date.

### B-Scan Options:

- Color Coded Image Generation (RGB)
- Mobile Instrument Cart w/ keyboard shelf.
- Adjustable Tilt Handle
- Alphanumeric Keyboard Controller



## A/B5500-Combo

### A/B-Scan

The A/B5500 Combo incorporates all of the features of the A and B units with the advantage of compactness. The Combo is just slightly larger than our A-Scan unit and equal in size to our B-Scan.

### Sonomed Commitment

Continuous and dependable support. Sonomed is the only Company devoted exclusively to Ophthalmic Ultrasound. Sonomed still supports, services and upgrades units manufactured in the mid 1980's.

**Display** 7" B&W monitor standard

**Video** RS-170 BNC for Video Printer VCR and remote viewing

**Size** 14.5"W, 6"H, 13.5"D  
36.9cm W, 15.3cm H, 17.8cm D

**Weight** A-Scan, 23 pounds, 10.4 kg  
B-Scan, 21 pounds, 9.5kg  
A/B-Scan, 26 pounds, 11.8kg

**Voltage / Hz** 100/120/220/240 Volts and 50 Hz or 60 Hz auto sensed by Input voltage

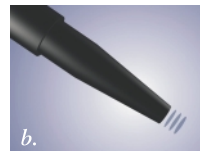
**Printer** High Resolution Video Printer

**Date / Time** Built-in clock calendar

**Data Entry** Full alpha-numeric

a. Direct Contact probe for hand-held, immersion or slit-lamp mounted application.

b. Soft-Touch probe for hand-held use minimizing corneal compression.



5500-A-1902 REV A

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