



Sonomed Escalon™

E-Z SCAN™ 5500+ SERIES  
COMPACT AND AFFORDABLE



## E-Z Scan™ 5500+ Series Ophthalmic Ultrasound Scanner

Over 30 years of leadership in ophthalmic ultrasound brings you the state-of-the-art, portable 5500+ series.

### **Sonomed Escalon Accuracy**

A combination of high frequency, low noise probes and proprietary algorithms provides high-quality B-scan images and precise A-scan measurements 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:

## Compact and Lightweight Touch Screen User Interface Full Function A-Scan Color or Gray-Scale B-Scan Image

### 1. General:

#### Display:

- TFT Active Matrix Color LCD (262144 colors)
- 6.5" (17cm) Diagonal
- 640 x 480 pixels
- High Luminance (250:1)

#### Video:

- RS-170 BNC for video printer
- VCR and remote viewing

**Size:** 12.5"W, 3.25"H, 10.0"D  
(31.7cm W, 8.2cm H, 25.4cm D)

**Weight:** 5.25 lbs. (2.4kg)

**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 via  
touch screen

### 2. A-Scan:

**Probes:** 10 MHz, focused, internal fixation  
light; Solid Tip or Soft-Touch

**Measurements:** ACD, Lens, Vitreous, and  
Axial Length using individual zone velocities  
and moving gates

**Formulas:** Holladay, Regression-II, Theoretic/  
T, Binkhorst, Hoffer-Q, Haigis (optional)

**Modes:** Automatic and Manual; Cataract,  
Dense Cataract, Aphakic & Pseudophakic  
(PMMA, Acrylic, Silicone, and Custom)

**Review:** Stored A-Scan Patterns, A-Scan  
measurements, and statistics

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

**Calculations:** 6 constants per user  
profile, 9 user 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 measure-  
ments, selected formula, IOL constants  
and user name

#### Accuracy:

- Electronic:  $\pm 0.023\text{mm}$
- Clinical  $\pm 0.1\text{mm}$

#### Range:

- Automatic Mode: 18-33mm
- Manual Mode: 0.5-35mm

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

**Report Data:** Patient Name, ID #, Eye  
Examined, K-readings, User Name, Date,  
Time, Immersion On/Off

**Post Refractive Formulas:** Laskany Myopic  
Regression, Laskany Hyperopic, Aramberri  
Double-K

### 3. B-Scan

**Probes:** 10MHz, focused transducer,  
30 frames/sec.

**Measurements:** Distance and area

**Amplifier:** 100 dB Gain, Logarithmic/  
Linear/S-Curve, Gain, and TVG controls

**Magnification:** Continuous Zoom  
(0.5x – 2.0x) with Pan (joystick controlled)

**Display Resolution:** 640 x 480 pixels,  
color VGA with optimal tissue resolution  
of 0.15mm

**Processing:** Reject below level, enhance  
contour and texture

**Freeze:** Foot Pedal or touch screen acti-  
vated

**Image:** B-Scan with simultaneous  
selectable vector A-Scan

- Display:** 60° sector fan, 128 lines, Gray  
Scale, B/a presentation (B emphasized)  
or A/B (A emphasized), Gain TVG,  
Electronic Scale, Amplifier, OD/OS,  
Velocity, Probe Orientation, Patient  
and User Names, Date/Time
- Maintains high resolution at all  
magnifications
  - Pan feature using built-in "joystick"  
control
  - Gain and TVG controls for optimal  
diagnostic capability
  - Selectable Color or Gray Scale image
  - Software enhancement capability  
of frozen image
  - Selectable, simultaneous A-Scan  
vector
  - Sealed B-Scan probe provides  
smooth scanning with virtually no  
audible sound
  - 5 user selections

01



02



03



- 01 Adjustable legs for angled viewing  
from 0 to 60 degrees
- 02 Direct Contact probe for hand-held,  
immersion, or slit-lamp mounted  
application
- 03 Soft-Touch probe for hand-held use  
minimizing corneal compression