

## E-Z Scan<sup>™</sup> 5500+ Series Ophthalmic Ultasound 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, Acryllic, 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 measurements, selected formula, IOL constants and user name

#### Accuracy:

Electronic: ±0.023mmClinical ±0.1mm

#### Range:

Automatic Mode: 18-33mmManual 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:** Latkany Myopic Regression, Latkany 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

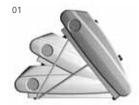
**Processing:** Reject below level, enhance contour and texture

**Freeze:** Foot Pedal or touch screen activated

**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







<sup>01</sup> Adjustable legs for angled viewing from 0 to 60 degrees

<sup>02</sup> Direct Contact probe for hand-held, immersion, or slit-lamp mounted application

<sup>03</sup> Soft-Touch probe for hand-held use minimizing corneal compression