



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 measurements, 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 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

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