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:

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-O, 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: ±0.023mm
   - Clinical ±0.1mm

   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: Latkany Myopic Regression, Latkany Hyperopic, Aramberri Double-K

3. B-Scan

   Probes: 10 MHz, 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 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