

SONOMED E-Z SCAN™ 5500+ SERIES TECHNICAL SPECIFICATIONS

A-SCAN

PROBE	10MHz, focused, internal fixation light Solid tip, Soft-Touch or Immersion	
MEASUREMENTS	ACD Lens Vitreous Axial Length using individual zone velocities and movable gates	
ACCURACY	Clinical Accuracy	±0.10mm
	Electrical Accuracy	±0.023mm
RANGE	Automatic Mode	18 – 33mm
	Manual Mode	0.5– 35mm
SCAN MODES	Automatic and Manual Cataract Dense Cataract Aphakic Pseudophakic (PMMA, Acrylic, Silicone and Custom)	
FORMULAS	Refractive: Binkhorst, Regression-II, Theoretic/T, Holladay, Hoffer-Q, Haigis (optional) Post Refractive: Aramberri Double-K, Latkany myopic Regression	
REVIEW	Stored A-scan Patterns A-scan measurements and statistics	
STATISTICS	Average Standard Deviation Range Maximum Difference from average	
CALCULATIONS	6 constants per user profile 9 user selected IOL powers vs. Refraction Personalized A-constants 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	
CALIBRATION	Automatic with built-in calibration cylinder	
REPORT DATA	Patients Name ID# Eye Examined K-readings User Name Date and Time Immersion On/OFF	
B-SCAN		
PROBE	10MHz, Focused Transducer, 30 frames/sec	
RANGE	125-1000µm	
ACCURACY	Clinical Accuracy	±5µm
	Electronic Accuracy	±1µm
MEASUREMENTS	Distance and area	
AMPLIFIER	100 dB Gain Logarithmic/Linear/SCurve Gain and TVG controls	
MAGNIFICATION	Continuous Zoom (0.5x - 2.0x) with Pan (joystick controlled)	
DISPLAY RESOLUTION	640 x 480 pixels Colour 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	

GRAY SCALE	256 Levels
DISPLAY	<p>600 sector fan</p> <p>128 lines</p> <p>Gray Scale</p> <p>B/a presentation (B emphasized) or A/B (A emphasized)</p> <p>Gain TVG</p> <p>Electronic Scale</p> <p>Amplifier</p> <p>OD/OS</p> <p>Velocity</p> <p>Probe Orientation</p> <p>Patient and User Names</p> <p>Date/Time</p> <ul style="list-style-type: none"> • Maintains high resolution at all magnifications • Pan feature using built-in “joystick” control • Gain and TVG controls for optimal diagnostic capability • Selectable Colour 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 • Five user selections
GENERAL	
DISPLAY	<p>TFT Active Matrix Color LCD</p> <p>(262144 colors)</p> <p>6.5” (17cm) Diagonal</p> <p>640 x 480 pixels</p> <p>High Luminance (250:1)</p>
VIDEO	<p>RS-170 BNC for Video Printer</p> <p>VCR and remote viewing</p>
WEIGHT	5.25 pounds (2.4 kg)

DIMENSIONS	12.5"W, 3.25"H, 10.0"D (31.7cm W, 8.2cm H, 25.4cm D)
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