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Putting Confidence in Ultrasound

AIMS Software Features	AIMS			Soniq	
	3.9	4	4.2	5.0	5.1
Measurement					
Temperature Measurement (requires Water Conditioner)	●	●	●	●	
Temperature Measurement through independent temperature probe via USB					●
Determination of Z distance (depth)		●	●	●	
Beam Alignment (requires Angular Positioner)	●	●	●	●	
Beam Alignment using alternate coordinate system			●	●	
Alignment with X Axis (for arrays)		●	●	●	
Search for Peak (X, Y, and Z)		●	●	●	
Waveform Acquisition	●	●	●	●	
Waveform Averaging in Oscilloscope Hardware	●		●	●	
Waveform Averaging using Correlation		●	●	●	
One-Dimensional Scans	●	●	●	●	
Two-Dimensional Scans	●	●	●	●	
Three-Dimensional Scans			●	●	
Z-Axis scan (for Isppa.0, Isppa.3, Pr.0, Pr.3, PII.0, PII.3, Fc (AWF), PD, MI, and TI)			●	●	
Determination of in-water and derated peak positions			●	●	
XY scan (for power calculation)		●	●	●	
ZX Scan (for SII and Ispta Calculation)			●	●	
Frequency Scans	●	●	●	●	
Therapy Data Acquisition and Calculation - IEC (Aer and Rbn)		●	●	●	
Therapy Data Acquisition and Calculation - FDA (ERA and BNR)		●	●	●	
Real-time plotting to provide user indication of scan quality useful for measurement setup				●	
SmartSCAN to scan in both forward and reverse directions useful for 2D/3D plots				●	
Circular / elliptical scan patterns					●
Pulse-width and Nth-edge Burst Triggering <input type="checkbox"/>					●
Use of 2 Focal Depths during Beam Alignment					●
Spot-check Wizard with PCS <input type="checkbox"/>					●
Wizard for Initial Measurement Setup					●
Calculation, Display, and Output					
Waveform, Spectrum, and PII plots	●	●	●	●	
One-Dimensional Scan Plots	●	●	●	●	
Two-Dimensional Scan Color, Contour, Wireframe, and Slice Plots	●	●	●	●	
Text File Format, Self-Explanatory	●	●	●	●	
Isppa, Ispta, Pr, PII, Fc, PD, MI, and TI Calculations	●	●	●	●	
In-water and Derated Intensity and Pressure Calculations	●	●	●	●	
Beam Width and Area Calculations	●	●	●	●	
Ultrasound Power Calculation	●	●	●	●	
Waveform Output to Excel		●	●	●	
Z-Axis Scan Output to Excel (Including TI)		●	●	●	
XY Scan Output to Excel		●	●	●	
TI Calculation		●	●	●	
SII (Scan Intensity Integral) Calculation			●	●	
Ispta Calculation for scanned and unscanned modes			●	●	
Copy Plots and Text to Clipboard		●	●	●	
Position Status Window		●	●	●	
Waveform Window			●	●	
Hydrophone calibration via planar scanning of calibrated source	●	●	●	●	
Multi-Frequency Hydrophone Calibration Data			●	●	
Automated report output compliant with FDA output tables for diagnostic measurements				●	
Compliant with IEC 62359 (MI and TI calculations)				●	
SmartHELP to auto-link to the relevant section in the user's manual.				●	
Real-time Beam Plots during Alignment <input type="checkbox"/>					●
Combined Modes (for MI and TI calculations)					●

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Control

CEC GPIB Adapter Compatibility	•	•	•	•	
National Instruments GPIB Adapter Compatibility		•	•	•	
Oscilloscope Control (Agilent 5000/6000 models)		•	•	•	
Support for Agilent DSO5000 & -6000 Series Oscilloscopes		•	•	•	
Auto Scaling Oscilloscope Vertical Sensitivity	•	•	•	•	
Function Generator Control	•	•	•	•	
Stepper Motor Control	•	•	•	•	
Remote (via Ethernet) Control of Stepper Motors		•	•	•	
Water Conditioner Control	•	•	•	•	
Scripting	•	•	•	•	
External Control of AIMS via Ethernet or DLL			•	•	
Enhanced External Control of AIMS via Ethernet or DLL			•	•	
Automatic backup of initialization file			•	•	
Measurement Validation to automatically check the health of the system.			•	•	
Automatic loading of hydrophone calibration files				•	
Windows 7 (32 bit) Compatibility				•	
Windows 7 (64 bit) Compatibility					•