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Putting Confidence in Ultrasound

AIMS Software Features	Version			
	3.9	4	4.2	Soniq 5.0
Measurement				
Temperature Measurement (requires Water Conditioner)	●	●	●	●
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				●
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.				●

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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 Compatibility				•