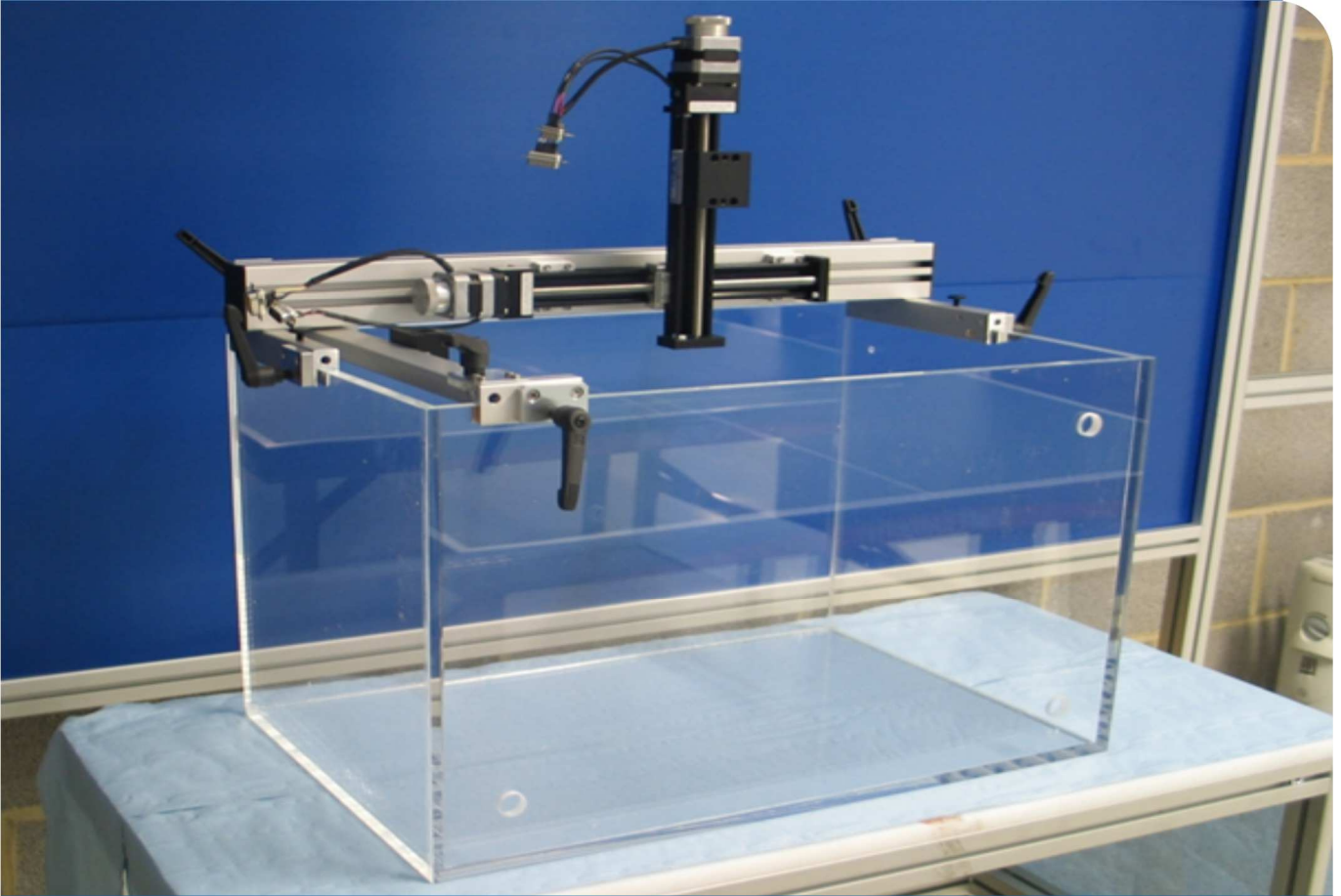


Research tank



Research tank is an entry-level scanning system that offers a way to automate many of the repetitive tasks of acquisition, display, storage and processing of data associated with the measurement and mapping of acoustic fields in a cost effective way.

Ultrasound measurements rely on the ability to accurately measure the acoustic field. To facilitate this, Research tank incorporates the ability to conduct:

- computer controlled movement of two linear axes and data acquisition
- coarse manual positioning of the third linear axis
- beam profiling and planar scanning with real-time display in the two motorised axes

TYPICAL SYSTEM SPECIFICATION

Water tank dimensions	0.6 m (L) x 0.4 m (W) x 0.4 m (H)
Linear motion range	0.75 m x 0.5 m x 0.5 m
Ideal frequency range	0.5 MHz - 20 MHz
Number of motorised axes	2 Linear axes (can be user-reconfigured to any choice of XY, YZ or XZ,)
Position encoding	None
Linear resolution	2.5 µm
Working speed	20 mm/s
Working load	Up to 1 kg
Data acquisition	Via modern digital oscilloscope (can be supplied if needed)
System software	PC supplied with preloaded applications for acquisition and post processing of data

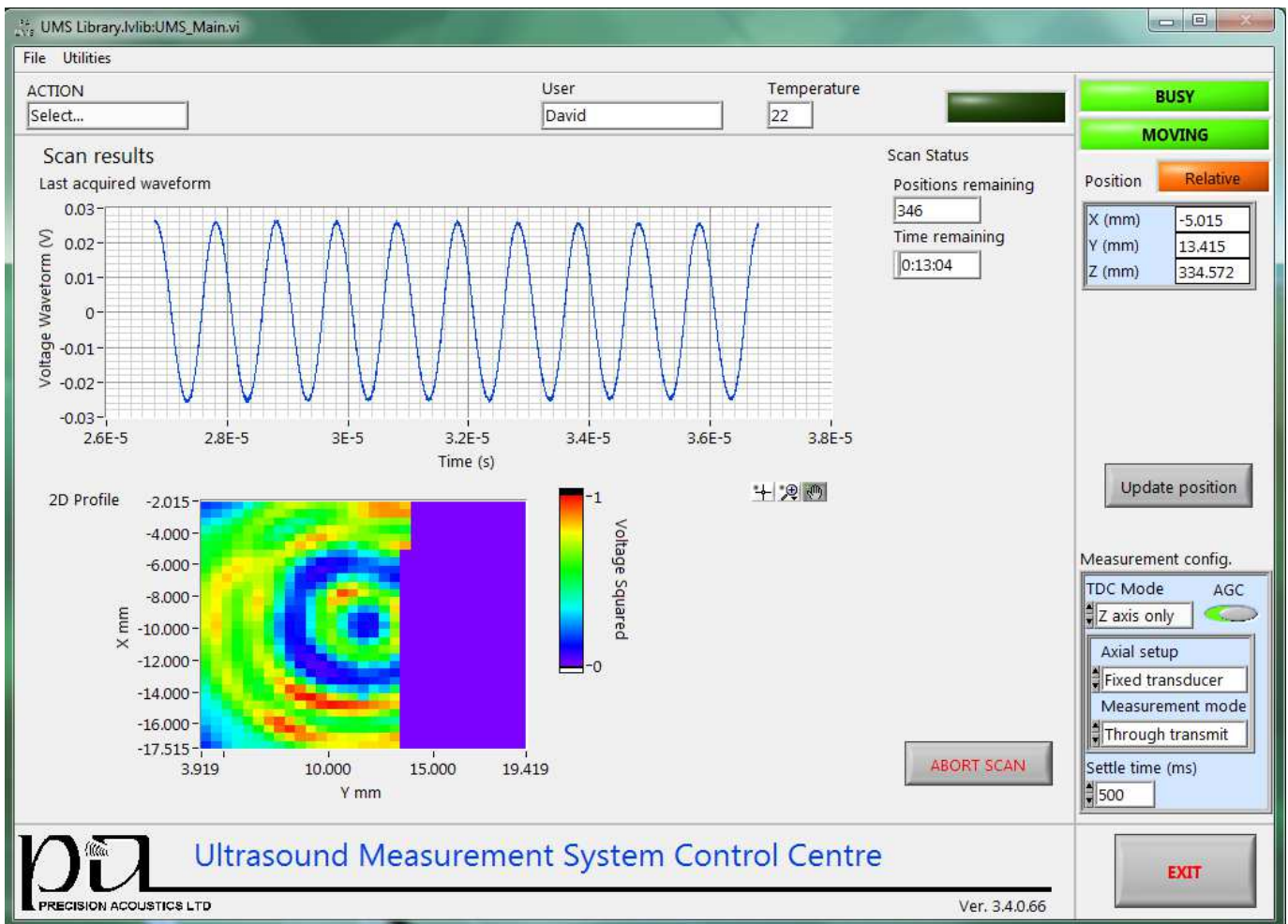


Figure 1 - UMS acquisition interface

All information is based on results gained from experience and tests, and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside the control of Precision Acoustics Ltd.