ZBox setup Instructions

The ZBox will allow you to connect a speaker and switch between SPL and impedance measurements without changing wires. Below are the setup instructions for using the ZBox within Praxis. When using the ZBox within AudioPass, these changes will automatically be configured.

If the ZBox is disconnected and the original Probes are used, the resistor values in the software for Probe 1 and Probe 2 should be set back to the default 47.5kohm. You can use the steps below to set the values back to 47.5kohms
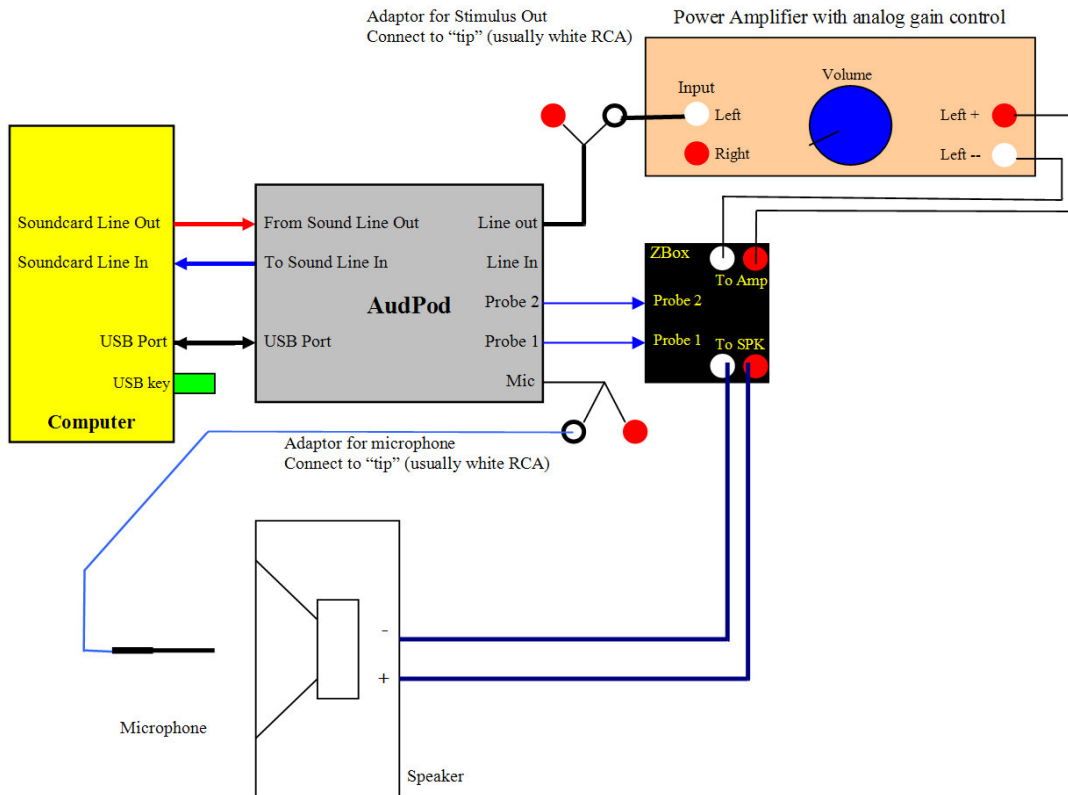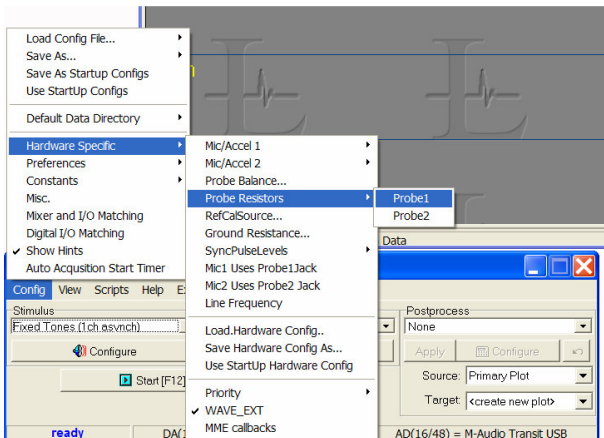

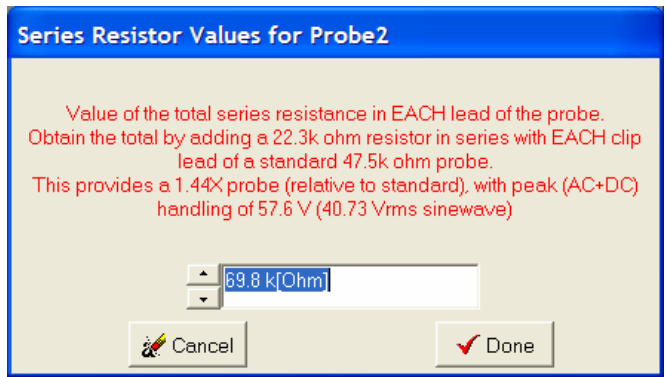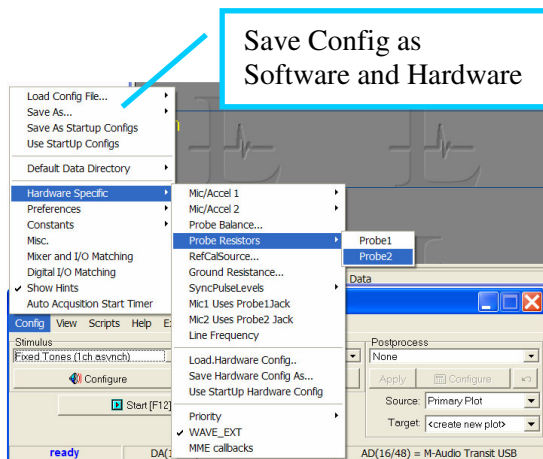Figure 1
Connect speaker according to Figure 1.

Change Probe 1 resistor values. In the "Main form" go to
Config>Hardware Specific>Probe Resistor>Probe 1 and change Probe 1 to 4.75kohms

Save Config as
Software and Hardware

Series Resistor Values for Probe2

Value of the total series resistance in EACH lead of the probe.
Obtain the total by adding a 22.3k ohm resistor in series with EACH clip
lead of a standard 47.5k ohm probe.
This provides a 1.44X probe (relative to standard), with peak (AC+DC)
handling of 57.6 V (40.73 Vrms sinewave)

69.8 k[Ohm]
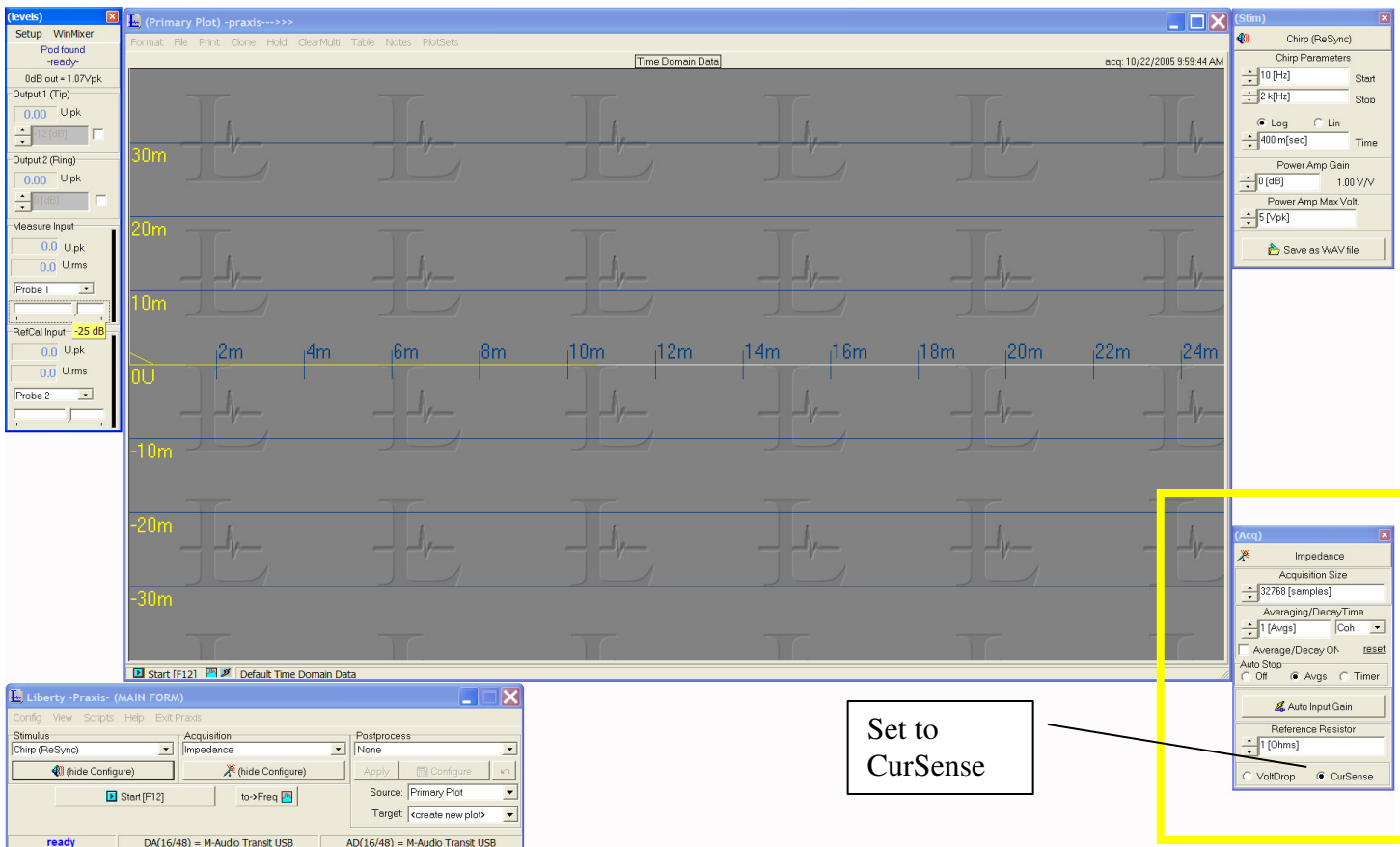
Cancel   Done

Change Probe 2 resistor values in the "Main form" go to
Config>Hardware Specific>Probe Resistor>Probe 2   and change Probe 2 to 69.8kohms

Save these settings in your config files as "Software and hardware" and give it a name when you use the ZBox
during SPL measurements

Set to
CurSense

For the impedance measurements change setting in the software per the setting above- Probe 1 to 4.75k   and
Probe 2 to 69.8k. For impedance measurements change the measurement type in the (Acq) to CurSense using
1ohm. Also save this as a Config file for future impedance measurements. Save the Config as "Software and
hardware" and give it a name.

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