

**Instruction Manual**  
**For**  
*Hsu Research High Pass Filter*

## **Introduction**

Congratulations! You have purchased the high pass filter that would help keep the deeper bass out of your main speakers.

In order to get optimum performance from your new purchase, please read this easy-to-follow instruction manual for the high pass filter and the manual for the subwoofer before trying out the subwoofer. It can save you a lot of time and possible unjustified disappointment.

## **A/C Connection**

Connect the power cord from the wall adaptor to the high pass filter and the wall adaptor to an AC outlet. You can leave the high pass filter permanently powered. If you need to unplug it, unplug it after the main amp has been turned off.

## **Connecting to Your System**

The high pass filter is for use with our subwoofers that does not have a high pass filter. For example, if you have the VTF or STF-3 subwoofers, or the TN1220HO with the 250W amp, this is what you need to keep the deep bass out of your main speakers. It is not suitable for use with the STF-1 or STF-2 both of which has only a single line level input.

The high pass filter goes between your preamp and your main amplifier. Connect from the left and right outputs of your preamp to the inputs of the high pass filter and from the high pass filter to your main amplifier.

Connect from the second set of preamp outputs to the subwoofer amp. If your preamp has only a single set of preamp outputs, use Y connectors to get two sets of preamp outputs. Get single male and two female Y connectors and plug the male ends into the preamp outputs. That gives two sets of female preamp outputs.

## **Functions of Controls**

**EQ Switch** – EQ1 position gives you the first high pass filter frequency. We usually set that for the lower of the two chosen frequencies. EQ2 position is for the higher crossover frequency you have chosen. For example, if you have chosen 60 and 80 Hz high pass filter frequencies, EQ1 will be 60 Hz, EQ2 will be 80 Hz.

**Stereo/Mono Switch** – Leave this in the stereo position.

**Subwoofer Level Control** – When used as a high pass filter, this adjusts the gain of the main speakers. Set the level control to about 1 o'clock position for unity gain.

## **Technical Specification**

Gain: 14 dB.

Input Impedance: 10k ohm.

Output Impedance: 100 ohms.

Inputs: Two line level inputs.

Output: Two line level outputs (stereo).

Controls: Subwoofer level (high pass gain), EQ selection (crossover frequency selection), and stereo/mono selection (should be left in stereo position).

Shipping Weight: 1 lb.

Dimensions: 4"(w) x 2"(h) x 4" (d)

Power Requirements: 120 VAC, 5W.

Warranty: 1-year.