

AudioFire 12 Multichannel Setup

Always use the approved driver from the SoundCheck DVD or from our website:
http://www.listeninc.com/us/support/download_drivers.html



Figure 1 – Mixer Screen: Output Channels 1 and 2

The mixer application for the AudioFire 12 should be configured as shown above. **Figure 1** shows the settings for Outputs 1 and 2. A preset for this has been saved with the example sequence. From the mixer screen click **“Load”**.

Navigate to the Multichannel Self Test Package folder, open the folder for the audio interface and open **“SoundCheck Config 1.AudioFire12 session”**.

The mixer is then set to:

- All Analog monitor channels are Muted.
- Note that odd number channels are panned Left, even number channels are panned right.
- Playback for channels 1 and 2 is enabled.
- Analog Out 1 and 2 are enabled. Both set to Play A1 and A2.
- Playback for Outputs 3 and 4 (and the remaining outputs), is setup in the same way. Clicking on the Output Tabs at the top of the mixer allows you to check each channel pair.
- All Output Groups should be set since they can all be accessed by SoundCheck.

Settings Tab

- In the Settings Tab, set the Sample Rate to 44.1 kHz. The Sample Rate in the SoundCheck Hardware Configuration must match this setting. The AudioFire 12 does not automatically update to the rate set in the SoundCheck Hardware Editor.
- Under Wave devices select “Surround Sound”. This sets the ASIO channel naming to individual numbered channels: Analog In 1, Analog In 2, etc. This can be seen in the **Select Ch** column of the Hardware Editor in **Figure 3**.
- Click **Save** on the mixer to save the mixer setup for use with SoundCheck.

The ASIO buffer is set in the Settings Utility which is launched separately from the Mixer Utility. In the SoundCheck Hardware Editor, while in Tab View, click on the **ASIO Control Panel** button.

The buffer for 2 channels of measurement is usually set to 256 samples. More channels of measurement will require a larger buffer. For 12 channels of testing we recommend a buffer of at least 512.

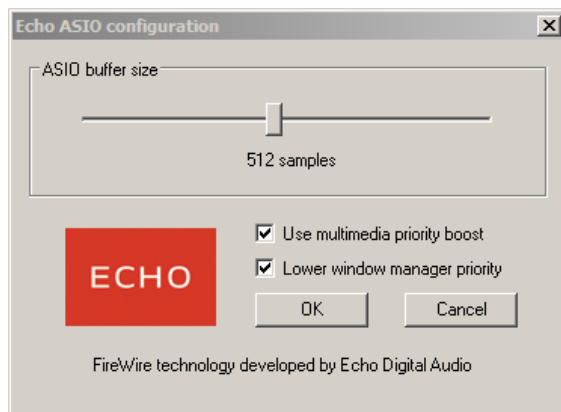


Figure 2 – ASIO Control Panel

The Hardware Editor below shows the general settings for the Input and Output Vp values as well as the latency.

Hardware Channel Table									
Input Channels									
Channel Name	Driver	Device Name	Select Ch	Vp	Analog/Digital	Sampling Rate	Alias Freq	Bit Depth	Latency
Input 1	ASIO	ASIO Echo FireWire	Analog In 1	8.87	Analog	48000 Hz	22800 Hz	24 bit	900
Input 2	ASIO	ASIO Echo FireWire	Analog In 2	8.87	Analog	48000 Hz	22800 Hz	24 bit	900
Input 3	ASIO	ASIO Echo FireWire	Analog In 3	8.87	Analog	48000 Hz	22800 Hz	24 bit	900
Input 4	ASIO	ASIO Echo FireWire	Analog In 4	8.87	Analog	48000 Hz	22800 Hz	24 bit	900
Input 5	ASIO	ASIO Echo FireWire	Analog In 5	8.87	Analog	48000 Hz	22800 Hz	24 bit	900
Input 6	ASIO	ASIO Echo FireWire	Analog In 6	8.87	Analog	48000 Hz	22800 Hz	24 bit	900
Input 7	ASIO	ASIO Echo FireWire	Analog In 7	8.87	Analog	48000 Hz	22800 Hz	24 bit	900
Input 8	ASIO	ASIO Echo FireWire	Analog In 8	8.87	Analog	48000 Hz	22800 Hz	24 bit	900
Input 9	ASIO	ASIO Echo FireWire	Analog In 9	8.87	Analog	48000 Hz	22800 Hz	24 bit	900
Input 10	ASIO	ASIO Echo FireWire	Analog In 1	8.87	Analog	48000 Hz	22800 Hz	24 bit	900
Input 11	ASIO	ASIO Echo FireWire	Analog In 1	8.87	Analog	48000 Hz	22800 Hz	24 bit	900
Input 12	ASIO	ASIO Echo FireWire	Analog In 1	8.87	Analog	48000 Hz	22800 Hz	24 bit	900
Output Channels									
Channel Name	Driver	Device Name	Select Ch	Vp	Analog/Digital	Sampling Rate	Alias Freq	Bit Depth	
Output 1	ASIO	ASIO Echo FireWire	Analog Out	8.4	Analog	48000 Hz	22800 Hz	24 bit	
Output 2	ASIO	ASIO Echo FireWire	Analog Out	8.4	Analog	48000 Hz	22800 Hz	24 bit	
Output 3	ASIO	ASIO Echo FireWire	Analog Out	8.4	Analog	48000 Hz	22800 Hz	24 bit	
Output 4	ASIO	ASIO Echo FireWire	Analog Out	8.4	Analog	48000 Hz	22800 Hz	24 bit	
Output 5	ASIO	ASIO Echo FireWire	Analog Out	8.4	Analog	48000 Hz	22800 Hz	24 bit	
Output 6	ASIO	ASIO Echo FireWire	Analog Out	8.4	Analog	48000 Hz	22800 Hz	24 bit	
Output 7	ASIO	ASIO Echo FireWire	Analog Out	8.4	Analog	48000 Hz	22800 Hz	24 bit	
Output 8	ASIO	ASIO Echo FireWire	Analog Out	8.4	Analog	48000 Hz	22800 Hz	24 bit	
Output 9	ASIO	ASIO Echo FireWire	Analog Out	8.4	Analog	48000 Hz	22800 Hz	24 bit	
Output 10	ASIO	ASIO Echo FireWire	Analog Out	8.4	Analog	48000 Hz	22800 Hz	24 bit	
Output 11	ASIO	ASIO Echo FireWire	Analog Out	8.4	Analog	48000 Hz	22800 Hz	24 bit	
Output 12	ASIO	ASIO Echo FireWire	Analog Out	8.4	Analog	48000 Hz	22800 Hz	24 bit	

Figure 3 – Hardware Editor

Note: When you change the ASIO buffer size you will need to change the Latency value in the Hardware Editor. Set the Hardware Latency to 0 (zero) and run the Self Test sequence from the Calibration folder in SoundCheck. This will give you the Latency for the new Buffer size. Enter this value in the Latency fields of the Hardware Editor.

The Multichannel Self Test Sequence can be used to test all channels of the audio interface simultaneously. The sequence is available from the Listen website.

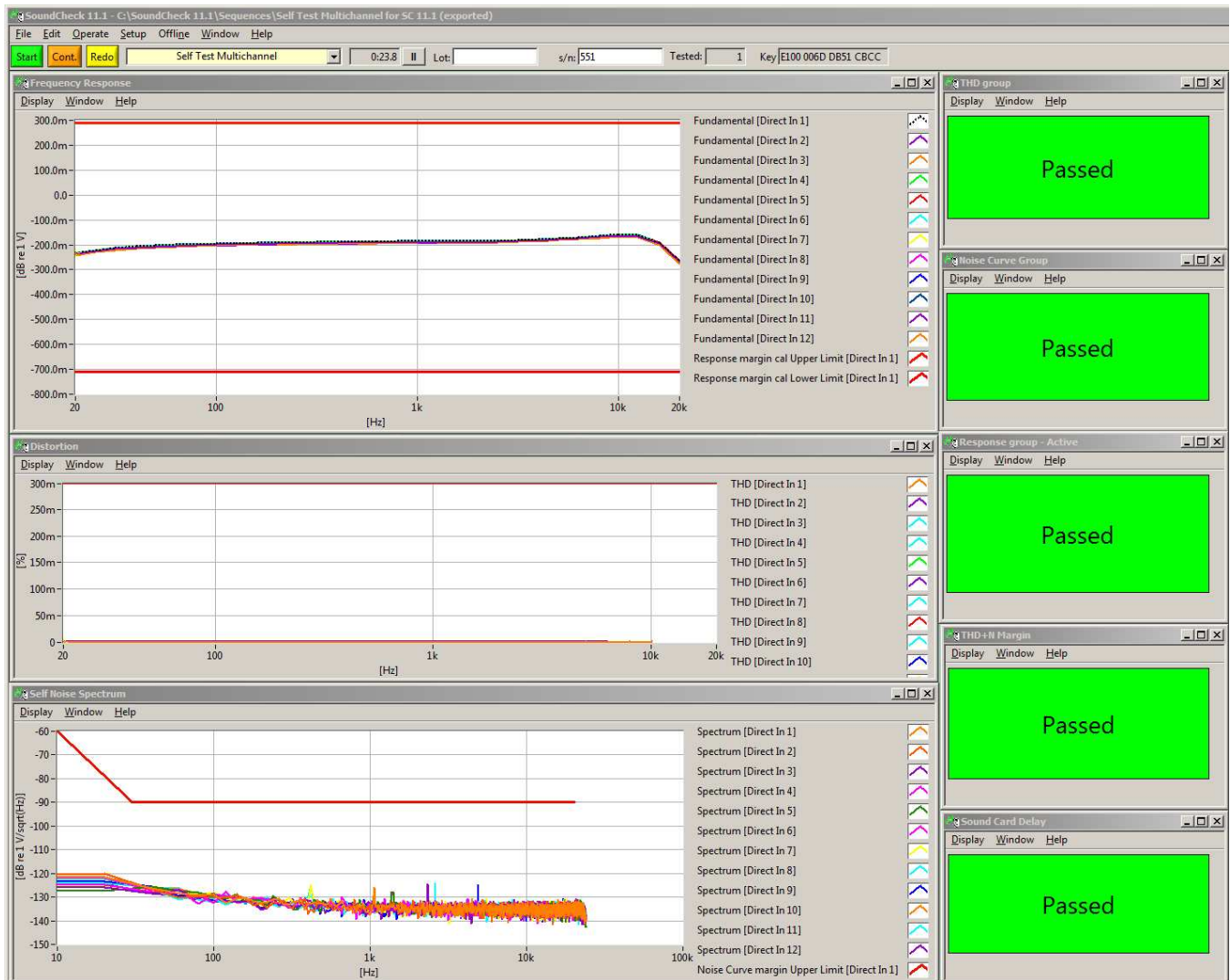


Figure 4 – Multichannel Self Test Display Example