



## 1 Introduction

This application note details how to play and record mono streams for AudioScience adapters. Note that for some adapters, such as the ASI6416/6316, a mono mode exists in newer drivers. One can perform mono playback/record simply by changing the adapter to mono mode.

ASISControl is used to make the adjustments necessary for mono playback/recording. The settings to adjust for mono playback/record are: The Adapter Mode of the adapter, the Channel\_Mode for the players and recorders, the volume controls for the players, the Mux for the line outs and recorders, the volume controls of the line outs, and the Channels for the recorders.

## 2 Mono playback

**2.1** Using ASISControl, set the Adapter Mode of the adapter appropriately by clicking on the name of the adapter in the left pane and selecting the appropriate mode in the right pane. A reboot is required. See the audio card's datasheet for specific information on its modes. (For example, if 2 stereo files need to be played as 4 mono files, the audio card must support at least 4 or more players; one for each mono file.)

**2.2** Set the Channel\_Mode to "Stereo\_to\_left" for the odd numbered players and make sure the volume levels for the players are set to 0dB.

**2.3** Set the Channel\_Mode to "Stereo\_to\_right" for the even numbered players and make sure the volume levels for the players are set to 0dB.

**2.4** Set the volume levels for the line outs as follows, using the example of 2 stereo files needing to be played as 4 mono files: Line\_Out 1 will have Player 1's left channel volume at 0dB and Line\_Out 2 will have Player 1's right channel volume at 0dB. Line\_Out 3 will have Player 2's left channel volume at 0dB and Line\_Out 4 will have Player 2's right channel volume at 0dB.

## 3 Mono record

The left channel is always recorded when recording in mono. With the Channel\_Mode of a recorder is set to Normal, the left channel is recorded. Setting the Channel\_Mode to Swap records the left channel again, but because of the swapping operation, it is actually the right channel that is recorded.

**3.1** Using ASISControl, set the Adapter Mode of the adapter appropriately by clicking on the name of the adapter in the left pane and selecting the appropriate mode in the right pane. A reboot is required. See the audio card's datasheet for specific information on its modes. (For example, if 2 stereo files need to be recorded as 4 mono files, the audio card must support at least 4 recorders; one for each mono file.)

**3.2** Set the Channels of the recorders to Mono from the dropdown list.

**3.3** Set the Channel\_Mode to "Normal" for the odd numbered recorders.

**3.4** Set the Channel\_Mode to 'Swap' for the even numbered recorders.

**3.5** Set the Muxes for the recorders as follows, using the example of 2 stereo files needing to be recorded as 4 mono files: Record 1 and 2 muxes both set to line in 1 and Record 3 and 4 muxes both set to line in 2.

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