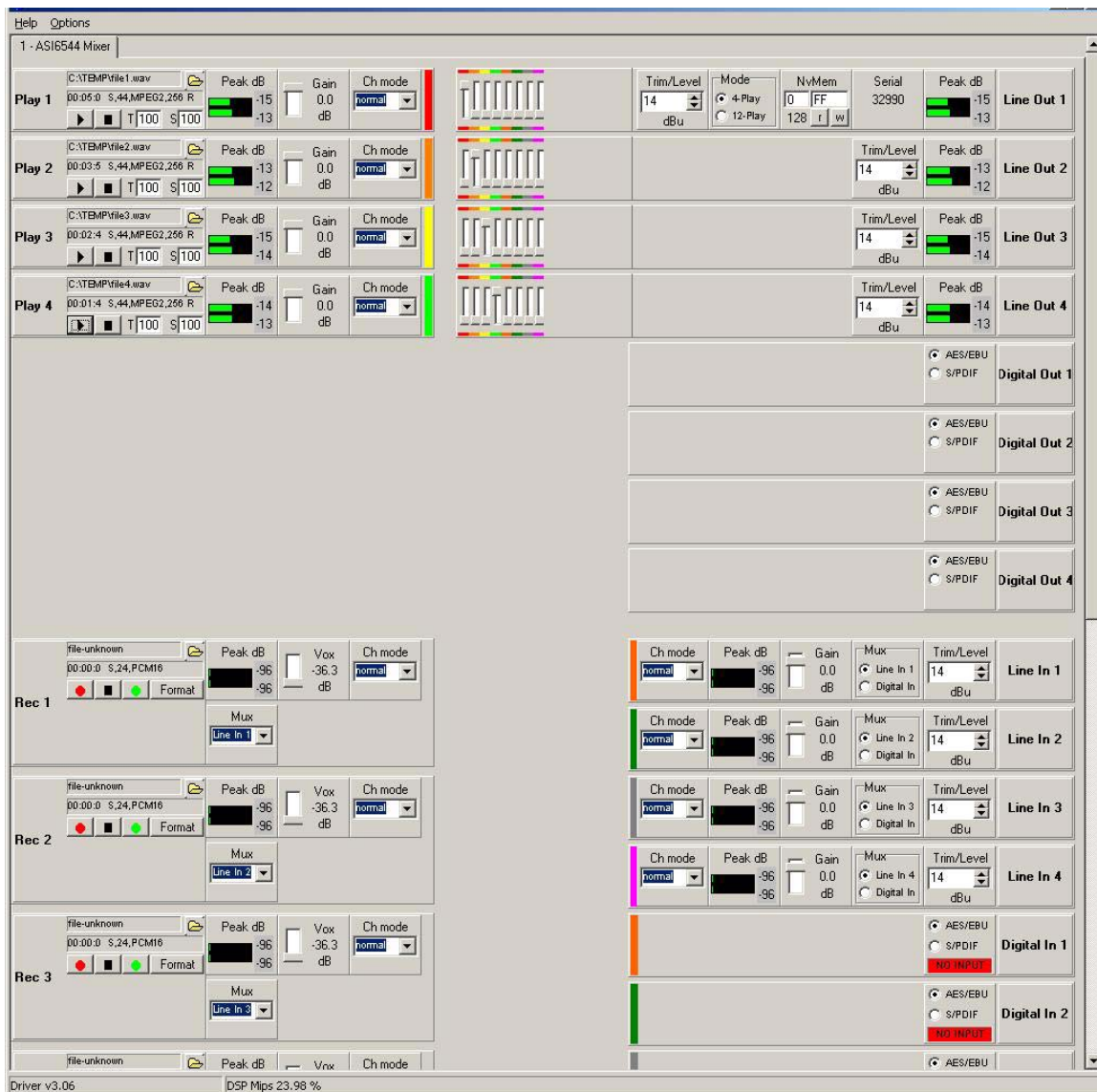


1 Introduction

ASIMixer is an application that allows you to setup and control the functions of an AudioScience adapter when running with the WAVE driver. The basic outline and functions a user will typically see in ASIMixer is outlined in this document. **Note** that not all features are available on all AudioScience adapters. Those features not on all adapters will be distinguished with parentheses, for example, (Adapter_Mode) is not available on all adapters.

Typically, ASIMixer is only used during initial set-up of installations; an end user would not use it for every day playing and recording. Some OEMs will supply configuration settings for end users to use. ASIMixer can also be used for basic troubleshooting. For example, if a particular application will not record, testing to see if ASIMixer can record narrows where the issue may be.

Below is a screenshot of ASIMixer on a PC with an ASI6644 in it, an adapter that has both analog and digital I/O.



2 Adapter Features

ASIMixer displays all features of an adapter on one screen.

Note that when there is more than one AudioScience adapter in a machine, an instance of ASIMixer must be opened for each adapter; click on the appropriate tab to select an adapter.

2.1 Players

Typical player functions are found here.

- **File Textbox** to display filename and path of selected audio
- **File icon button** to select audio file to play
- **Audio Information Textbox** for displaying **Counter, Channels, Sample Rate, Format, and Bit Rate**
- **Play Button**
 - Double-click Play button to loop audio
 - An “R” appears on the right side of the Audio Information Textbox indicating “Repeat”
- **Stop button**
- **(Time Scale)** sets the playback timescale with pitch and content preserved
 - Range is 0.8-1.2 (to 120%) of original time
- **Sample Rate Scale %** to adjust the playback sample rate +/- 20%
 - Will result in pitch shift
- **Peak dB Meter** for monitoring
- **Gain** controls the gain/attenuation of the signal passing through
 - A Master Volume since it affects all destinations
- **Channel mode** to change channel output
 - Normal – left channel out left channel, right channel out right channel
 - Swap – left channel out right channel and vice versa
 - LtoS – left channel out to both left and right channels
 - RtoS – right channel out to both left and right channels
 - StoL – left and right channels out to left channel
 - StoR – left and right channels out to right channel
- **Color Coded Bar** for associating the particular player to the ‘mixer’ (see Line Out information)



2.2 Recorders

Typical recorder functions are found here.

- **File Textbox** to display filename and path of recorded audio
- **File** icon button to select where to save recorded file
 - Explicitly type in the file extension
- **Audio information Textbox** for displaying **Counter, Channels, Sample Rate, Format, and Bit Rate**
- **Record, Stop, and Monitor** buttons
 - **Monitor** does not create an audio file; useful for testing or burning in
- **Format** button – click to open Format dialog box for selecting recording file format
 - NOTE that all formatting information is displayed for all adapters; see datasheets for particular adapters to find out supported recording formats
 - Select Channels, Format, Sample Rate (Hz) and Bitrate (kbps)
- **Peak dB** meter for monitoring
- **Multiplexer** for selecting record source
- **Vox** control to specify the signal level required for recording to begin
 - Default is -100 where recording begins with any level audio.
- **Channel Mode** to change channel output
 - Normal – left channel out left channel, right channel out right channel
 - Swap – left channel out right channel and vice versa
 - (LtoS) – left channel out to both left and right channels
 - (RtoS) – right channel out to both left and right channels



2.3 Line Outs

- **Color coded “mixer” of the Players and Line In volumes** that can be mixed to a particular Line Out
 - Controls the gain/attenuation of the signal passing through
- **Trim/Level** to adjust output signal strength to match maximum of external equipment
- **Peak dB meter** for monitoring

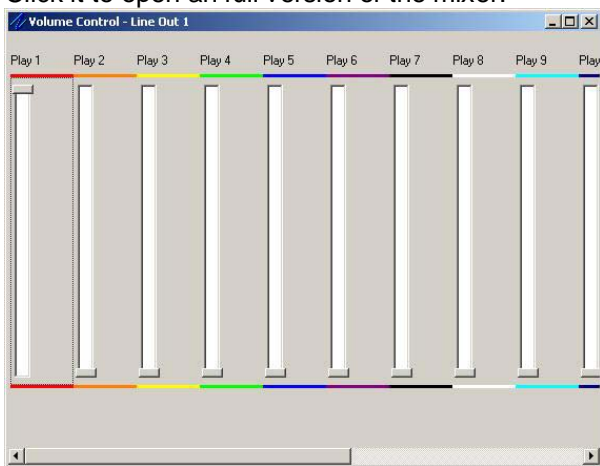
- In addition, Line Out 1 for each adapter has the following information:
 - **(Mode)** for selecting the mode of the card
 - A restart is needed after changing mode
 - ◆ Written to adapter’s EEPROM
- **NvMem** used by OEMs
- **Serial** number of the adapter



Note: If the adapter is in a mode that supports many play stream, the mixer will look like the following:

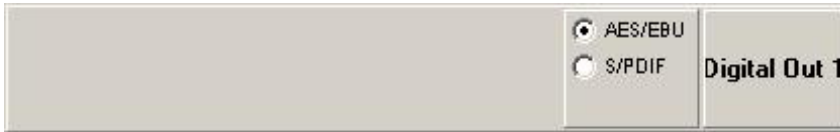


Click it to open an full version of the mixer:



2.4 Digital Outs for adapters with digital I/O

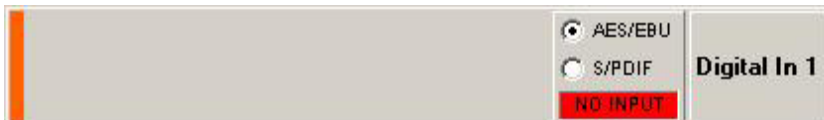
- Select from **AES/EBU** (Professional) or **S/PDIF** (Consumer) selection


2.5 Line Ins

- **Color Coded Bar** for associating the particular line in to the 'mixer' (see Line Out information)
- **(Channel Mode)** to change channel output
 - Normal – left channel out left channel, right channels out right channel
 - Swap – left channel out right channel and vice versa
 - LtoS – left channel out to both left and right channels
 - RtoS – right channel out to both left and right channels
 - StoL – left and right channels out to left channel
 - StoR – left and right channels out to right channel
- **Peak dB meter** for monitoring
- **Gain** to control the gain/attenuation of the signal passing through
- **Multiplexer** for selecting line in source
- **Trim/Level** to adjust input signal strength to match maximum of external equipment

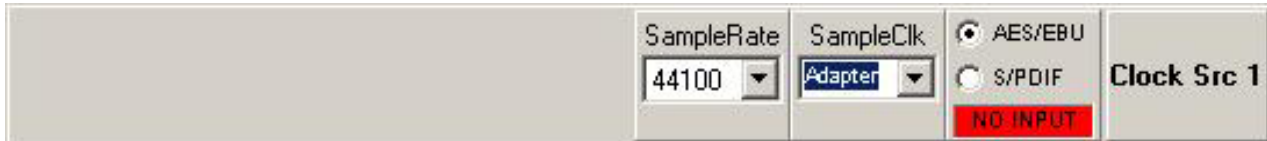

2.6 Digital Ins

- **Color Coded Bar** for associating the particular digital in to the 'mixer' (see Line Out information)
- Select from **AES/EBU** (Professional) or **S/PDIF** (Consumer) selection
- **NO INPUT/INPUT** status textbox for valid/invalid digital source



2.7 Clock Src 1 (this screenshot is for an adapter with AES/EBU and analog I/O; for analog-only adapters, only the "SampleRate" will show)

- SampleRate to select a particular sample rate
 - Note that all sample rates for all adapters are listed; see datasheets of particular adapters for supported sample rates
- **SampleClk** source
 - For adapters with analog/digital I/O, select from onboard or valid AES/EBU source
- **AES/EBU** (Professional) or **S/PDIF** (Consumer) selection
- **NO INPUT/INPUT** status textbox for valid/invalid digital source



2.8 ASIMixer Menu Items

- **Help**
 - **Lines and Controls** used for debugging purposes
- Options
 - **Autofade duration** to specify length of time between start and end volumes
 - **View Callbacks** used for debugging purposes
 - **Config Set Default** sets ASIMixer to default settings
 - **Config Save** saves current ASIMixer configuration settings
 - **Config Load** loads specified configuration file into ASIMixer

2.9 ASIMixer errors

ASIMixer will open a pop-up when any errors are encountered. This information can be saved and emailed to AudioScience for debugging purposes.

[end]