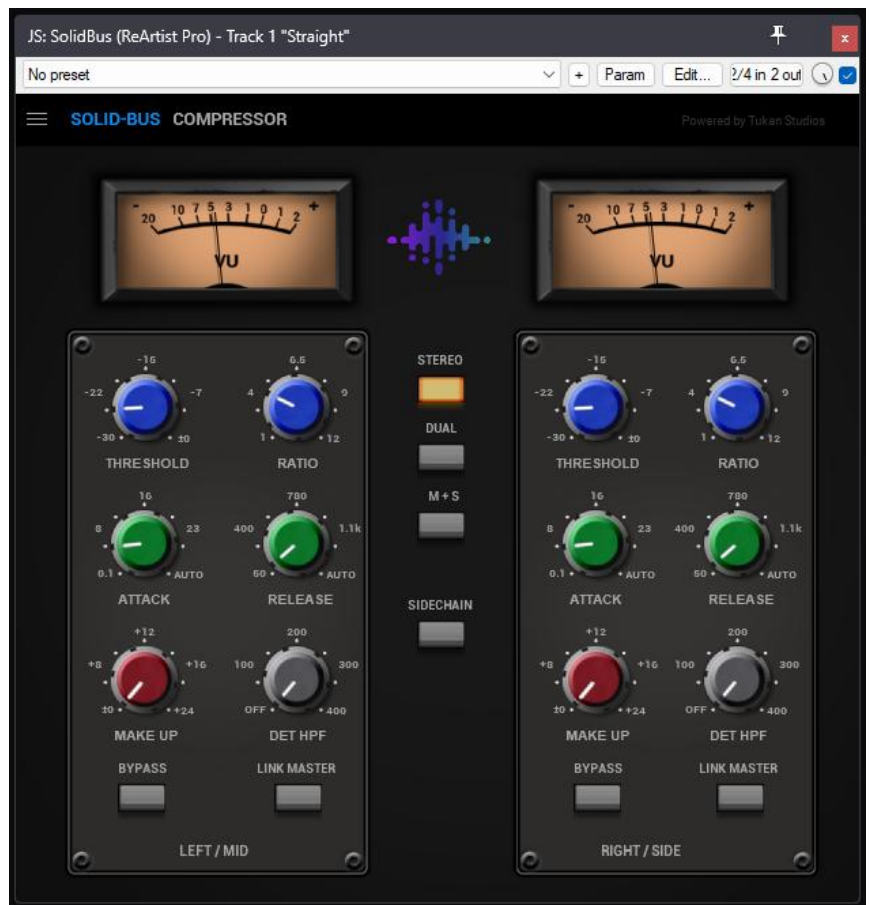


SolidBus

Mix-Bus Compressor

A Bus Compressor is a type of compressor that is primarily used in the mix bus to control the overall dynamics of the sound. Unlike compressors applied to individual tracks, the Bus Compressor affects all signals that pass through the mix bus, providing cohesion and consistency to the overall sound. Its usefulness lies in its ability to "join" or "glue" all the elements of a mix, creating a sense of unity and stability.

In the context of audio music mixing, the use of a Bus Compressor can be crucial to achieving a professional and balanced sound. By reducing dynamic variations between different parts of the mix, it helps maintain a constant volume level and prevents sudden spikes that could distort the signal. In addition, it can add body and presence to the mix, improving the perception of depth and acoustic space.



The Solid-Bus is an SSL-style compressor designed specifically for use on the mix bus. This type of compressor emulates the behavior of the classic compressors used in SSL mixing consoles, known for their ability to give "glue" or cohesion to the sound. The Solid-Bus offers a number of advanced features that allow precise control over mix dynamics, including controls to adjust threshold, ratio, attack, release, output gain, and other specific parameters such as the detection high-pass filter and bypass option.

Its benefits include:

- **Cohesion in the Mix** : The Solid-Bus is especially effective at bringing all the elements of a mix together, creating a sense of unity and stability.
- **Precise Control** : Offers a wide range of controls that allow you to fine-tune the dynamics of your mix, from threshold to output gain.
- **Modes of Operation** : Includes options to work in stereo, dual or M+S modes, allowing you to adapt it to different mixing situations.
- **Advanced Features** : It incorporates functions such as transistor simulation at the input and output, as well as the possibility of activating the sidechain function for greater flexibility in processing.

In short, the Solid-Bus is an essential tool for any audio producer looking to get a professional and balanced mix. Its ability to control the overall dynamics of the mix, along with its advanced features and versatility, make it a great choice for adding that finishing touch to your music productions.

Parameters

The SolidBus GUI features several controls that allow you to adjust different aspects of the compressor. Each of them is detailed below:

- **Threshold:** Controls the signal level from which the compressor begins to act. It can be adjusted between -30 dB and 0 dB.
- **Ratio :** Defines the amount of compression applied to the signal when it exceeds the threshold. It can vary between 1:1 and 12:1.
- **Attack :** Determines how quickly the compressor responds when the signal exceeds the threshold. Values range from 0.1 ms to 31 ms, with an "Auto" option.
- **Release :** Sets how long it takes for the compressor to stop compressing after the signal drops below the threshold. Values range from 50 ms to 1501 ms, also with an "Auto" option.
- **Make Up :** Compensates for the reduction in volume caused by compression. It can be adjusted between ± 0 dB and +24 dB.
- **Det HPF (High Pass Detection Filter):** Applies a high pass filter to the detection signal, which prevents compression of very low frequencies. It can be turned off or set between 100 Hz and 400 Hz.
- **Bypass :** Allows you to temporarily disable the compressor without altering the current settings.
- **Link Master :** Links the left and right controls, allowing you to control both channels simultaneously.
- **Mode :** Offers three modes of operation: Stereo, Dual and M+S.
- **Sidechain :** Enables the sidechain feature, which allows an external signal to be used to control compression.
- **Input Transistors / Output Transistors :** Enables or disables transistor simulation on the compressor input and output, respectively.

In the Menu

The plugin menu offers several additional options:

- **Processing :** Allows you to enable or disable the processing of the plugin during playback, recording, or when it is stopped.
- **Groups :** Options for grouping instances of the plugin for joint control.
- **Scaling :** Allows you to automatically adjust the size of the GUI.
- **Transistors :** Enables or disables transistor simulation on the input and output.
- **Link Master :** Links the left and right controls.
- **Help :** Displays additional information about the plugin and its features.

Usage Tips

For best results with SolidBus, consider the following tips:

- **Threshold Adjustment** : Start by adjusting the threshold around -6 dB to achieve smooth compression. Then, adjust as needed to get the desired effect.
- **Ratio and Attack/Release** : Experiment with different combinations of ratio, attack, and release to find the right balance between natural dynamics and mix cohesion.
- **Using the Sidechain** : Use the sidechain function to create ducking effects or to emphasize certain elements of the mix.
- **M+S mode** : In the mid-side mode, you can apply different compression to the center and side signals, which can help to better define the stereo space.
- **Transistor Simulation** : Enables transistor simulation to add color and character to the signal.

Acknowledgments

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Summary

SolidBus is an excellent bus compressor that offers a wide range of control over the dynamics of your mix. With its main features, such as transistor emulation, M+S mode, and sidechain function, this plugin becomes an indispensable tool for any audio producer. Its ability to provide "glue" to sound, along with its versatility and ease of use, make it ideal for a wide range of production situations, from recording to mastering.