Split Harmonizer

Version 1.1.0

Welcome

Thank you for downloading this fine plug-in. **Split Harmonizer** uses slight detuning, independent for the left and right channel and a delay to accomplish a thickening effect. It is based on the famous **SoundTouch** library

In order to get the most out of the **Split Harmonizer**, please spend a few moments reading this brief manual.

License

The pre-compiled **Split Harmonizer** has a very simple license:

1. **Split Harmonizer** is freeware. This means that you are free to distribute it, give it to friends, or otherwise share it around. However, only the entire unaltered archive, including this document, may be re-distributed.

2. Copyright of the code and the finished plug-in remain the property of the *Delphi ASIO & VST Project* and namely *Christian-W. Budde*. Copyright of the SoundTouch library remain the property of *Olli Parviainen*.

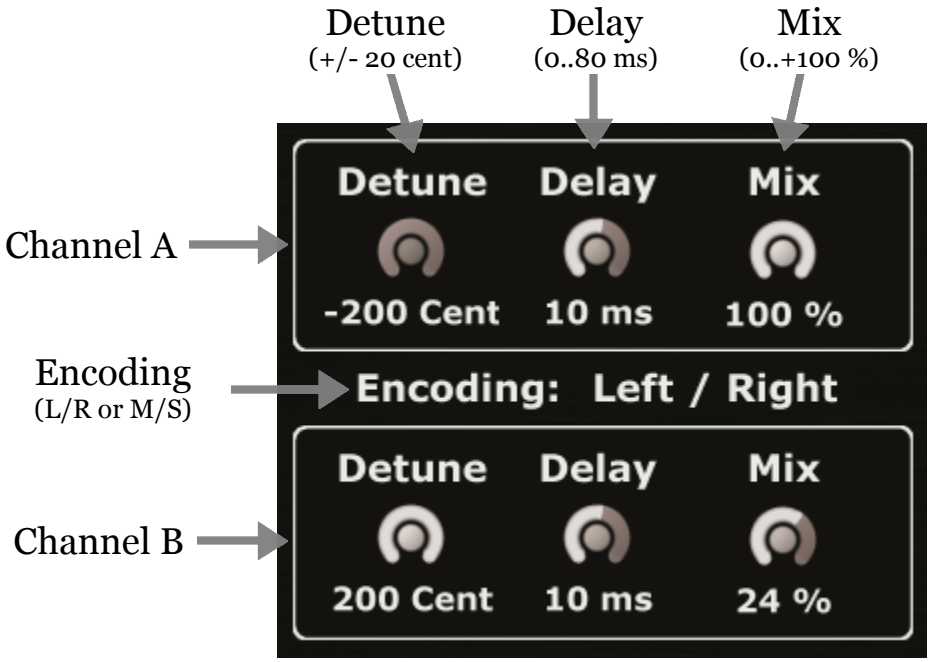
3. This plug-in is provided at no cost; therefore the author *Christian-W. Budde* assume no responsibility for any negative effects that may occur to the end user or the equipment used to run the plug-in.

4. Magazine editors are welcome to include the plug-in on cover mount discs or similar media; however, I request that am informed about it via e-mail. A few copies of the publication are always appreciated, but not expected.

User Interface

The user interface shows all adjustable parameters including a readout for every value. There are no meters available to maintain the lowest possible CPU usage without wasting too much CPU cycles. Either a dedicated analyse plugin or the build in meters can be used for this task.

Here is a commented screenshot:



The effect features two individual channels that can be either the left and right channel or due to a simple transformation the mid and side channel. Each channel contains the same three parameters to tweak as described in detail in the next section.

In the middle the encoding can be chosen (by clicking the text).

The dials can be adjusted by clicking and dragging up and down on a dial. To reset the dials to their defaults hold the [Ctrl] key while clicking on the dial. Holding the [Shift] key enters the fine tune mode.

The parameters of both channels can be synchronized by holding the [Alt] key pressed while dragging the dials.

Below any dial a read out shows the exact value of a parameter.

The parameters

This plugin features 7 adjustable parameters in two categories. The categories are **'Channel A'** and **'Channel B'** containing the same set of parameters described only for a single channel below. The remaining parameter **'Encoding'** is uncategorized.

Encoding

This parameter represents the encoding for each channel. A setting of '0' equals 'Left/Right', while a setting of '1' equals 'Mid/Side'. For 'Mid/Side' the 'Mid' is generated by adding both channel's signal data together, while the 'Side' is generated by subtracting the channel data from each other.

Channel Dependent Parameters

Detune

The 'Detune' parameter controls the amount of detuning in cent. 100 cent equals a semitone. Only a slight detuning is necessary, thus the range is limited to +/- 20 cent.

Delay

To create a doubling effect, the signal can be delayed by some milliseconds. With a short delay distance is simulated.

Mix

Ideally the detuned signal should be mixed slightly to the dry signal. Herby a value of 0 % means a dry signal only, while a value of +100 % represents the detuned value only.

Feedback / Bug Reports

I am always eager to hear feedback or have bugs reported. The easiest way is to send me a mail to: Christian@aixcoustic.com

Furthermore feel free to download the source code, that can be found in the Delphi ASIO & VST Project at sourceforge.net.

For more information about the SoundTouch library see:
http://www.surina.net/soundtouch/

Version History

1.0.0	First release!
1.1.0	Manual added

Credits

- Programming: Christian W. Budde
- SoundTouch library: Olli Parviainen
- Additional Framework Programming: Tobias Fleischer, Maik Menz
- Special Thanks: Swen Müller, Duncan Parsons, Laurent de Soras
- Documentation based on a template by Greg Pettit