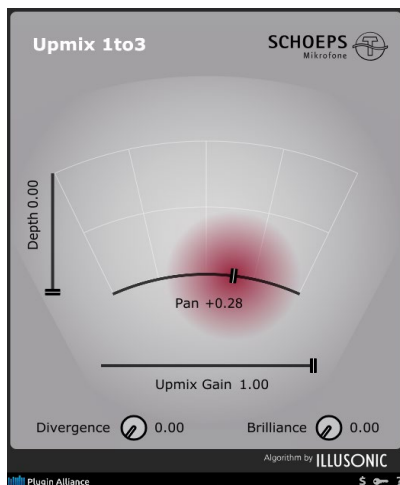
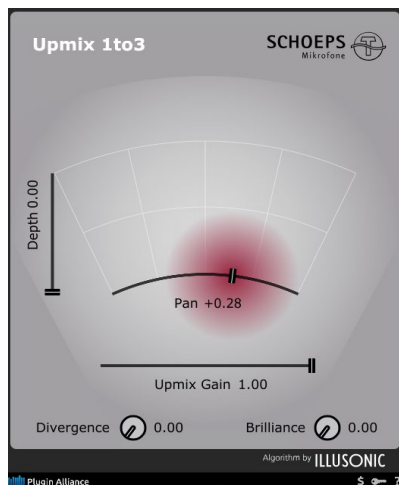


**USER GUIDE**

**Mono Upmix Plugin**



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## INTRODUCTION

The SCHOEPS Mono Upmix plugins will improve your flexibility when working with your mono sources in a mix. You can place sources further back in the stereo image by changing the early reflection patterns. You can also boost the diffuse sound from the mono signal itself.

The SCHOEPS Mono Upmix plugin comes in two versions:

- SCHOEPS Mono Upmix 1to2 - upmix a mono to a stereo signal
- SCHOEPS Mono Upmix 1to3 - upmix a mono to a LCR signal

The 1to3 version especially can be very useful in cinematic productions and location sound.

### Key Features

- Widening of spot or dialogue microphone signals
- Influencing the perceived distance and placement of a mono source in a LR or LCR image
- Boosting the diffuse sound of the mono source itself

### Applications

- Music recording
- Film and location sound
- Post-production
- Sound design

## INSTALLATION

- If you do not have an account, register for free on the [Plugin Alliance](#) website
- Download the [installation manager](#) from the website and select the SCHOEPS Mono Upmix plugin
- Follow the installation instructions
- Open the plugin in your DAW of choice and click on the plugin window to activate
- If your computer is connected to the Internet, click the "I'm Online" button and enter your Plugin Alliance credentials on the following page

For offline activation instructions and additional information, please refer to the [Activation Manual](#).

For more information, please visit: [www.plugin-alliance.com](http://www.plugin-alliance.com).

## ROUTING

You can use the plugin either as an insert effect or as a send effect. The 1to2 version takes one input signal and generates two output signals for L/R. The 1to3 version takes one input signal and generates three output signals for LCR. You can check out our tutorial videos for setting up the Upmix plugin [here](#).

The behavior of multi channel tracks is dependent on the DAW you are using. In order to achieve the best compatibility for the Upmix plugin, both versions support different I/O configurations.

### Input Signals

- 1to2
  1. Left
  2. ignored
- 1to3
  1. Left
  2. ignored
  3. ignored

### Output Signals

- 1to2
  1. Left
  2. Right
- 1to3
  1. Left
  2. Right
  3. Center

### Using Upmix as an insert effect.

Setting up the Upmix plugin as an insert effect is straight forward. Depending on your DAW, set up a mono or a multi channel track and insert the Upmix plugin. Check out the detailed description for your DAW on how to approach this.

Using the Upmix plugin as an insert effect is the recommended method.

### Using Upmix as a send effect

If you want to use the Upmix plugin as a send effect, you have to create a stereo effect track for 1to2 and a three channel effect track for 1to3.

The left channel (ch. 1) is always the input signal for both versions of the plugin. Make sure that the input signal always goes to the left input of your effect track. Use panning or hard routing for this.

### Pro-Tools (AAX)

The AAX version determines the track I/O configuration by itself when inserting the plugin. The 1to2 version can be inserted in mono and stereo tracks.

The 1to3 version can be inserted in mono and 3 channel tracks.

In Pro-Tools the recommended way is to always create a mono track for the signal you want to upmix. Starting from the insert point on the mono track it will be turned into either a 2 or a 3 channel track, depending on the version of the Upmix plugin.

When you use a stereo track, make sure that the input signal is on the first input channel (left channel). When using the 1to2 version, the second input (right channel) will be ignored by the plugin. For the 1to3 version, the inputs for right and center will be ignored.

### Nuendo / Cubase (VST3)

When using VST3, make sure that the 1to2 version is inserted into a 2 channel track and the 1to3 version is inserted into a 3 channel track. Otherwise the plugin will not work correctly. This also applies if you want to use the plugin as a send effect.

In Nuendo/Cubase it's possible to insert the plugin into all kinds of other multi channel tracks. However, you must be careful and adjust the plugin I/O routing by hand in the routing editor to get the correct routing. To avoid this, the recommended method is to use stereo tracks for 1to2 and 3 channel tracks for 1to3.

### Logic (AU)

Audio Units have some special limitations when it comes to multi channel audio. If you want to use the 1to3 Version of the Upmix plugin you can use [Reaper](#). For Ableton Live or Logic Pro X you can only use the 1to2 version of the Upmix plugin.

## PARAMETERS

The parameters of the Upmix Plugin are easy to understand and overlap between the two versions.

### SCHOEPS Mono Upmix 1to2

- **Pan:** The panning slider allows to pan the dry mono signal from L to R like with a normal stereo panner. Keep in mind that only the dry mono signal is panned and not the upmixed signal which is played back in stereo.
- **Depth:** The depth control lets you place a mono source further back in the stereo image by adding early reflections which are generated based on the input signal.
- **Upmix Gain:** Controls the amount of gain which is applied to the extracted diffuse sound. Increasing it results in a more “wet” signal.
- **Brilliance:** The brilliance control boosts the high frequencies in the extracted diffuse sound.

### SCHOEPS Mono Upmix 1to3

Most of the controls for the 1to3 Version are the same as for the 1to2 version. Except:

- **Divergence:** Divergence gives you control of the balance of the phantom center between L/R and the real discrete center channel C. When Divergence is 0, 100% of the center signal stays in the center speaker. This means you have a real center signal and no phantom center. If Divergence is 1, 100% of the center signals goes to L/R. In this case you no longer have a real center signal and instead have a pure phantom center between L/R.

### Plugin Alliance Toolbar

- **“Key” Icon:** Opens the plug-in Activation Dialog.
- **“?” Icon:** Opens a dialog through which one can access the plug-in’s help documentation, online product page, or any available updates.
- **“\$” Icon** (when applicable): If you’ve purchased your plug-in using the Plugin Alliance Installment Payments option, the “\$” icon links to your account so you can make a payment on your financed License.

## TROUBLESHOOTING

- **VST3:** If the output sound isn't as expected, it could be due to the incorrect routing of the input signal. The left channel is always the main input in both versions of the plug-in. Make sure that the mono input signal is routed to the left channel. Use panning or direct routing to do this.

## CHANGELOG

### Version 1.2.0

- Added support for universal macOS binary (x86\_64 and arm64)
- Min osx version set to 10.12 (macOS Sierra)
- AAX update to 2.4.0
- boost update to 1.7.8

### Version 1.1.0

- Added smooth bypass
- Fixed osx crash in Plug-in Unit Test From Steinbergs VST3 Plug-in Tests App
- Plugin Alliance Toolbar new Logo
- Disabled Screen new graphics with hovering
- BXLicenser update 5.1
- VST support removed; only VST3 now
- AAX update to 2.3.2
- JUCE update to 6.0.8
- boost update to 1.7.3

### Version 1.0.0

Initial Release