

BIG

Binaural Image Generator

Audio effect plugin by Raising Jake Studios

BIG is a unique plugin that uses cross-coupled micro-pitch and timing adjustments to generate a stereo signal from a mono input or to add aura to stereo inputs. The stereo image generated by **BIG** will fill the stereo panorama, generating a “binaural-like” experience on headphones and a more spacious mix on speakers.

BIG is a 1in/2out and 2in/2out plugin intended for use on, or to generate, stereo tracks and buses.

BIG is a 64-bit VST2, VST3 and AAX plugin for Windows and “Universal Binary” VST2, VST3, AU and AXX plugin for Mac OS 10.11 or higher on Intel and Apple Silicon.

INSTALLATION INSTRUCTIONS

Installing the **BIG** plugin is simply a matter of copying and pasting the appropriate files from the **BIG** purchased download to the proper folders on your computer.

All RJ Studios plugin files are double zipped. The top-level zip file (download) contains two sub-files for Mac(“dmg”) and PC (“.zip”) versions that are independently zipped. This was necessary to preserve the Pace iLok signatures for the AAX plugins for the respective OS systems. Please unzip the Mac or PC sub-files before copying the desired plugin to your folders

FOR PC (“x64 PC zip” folder)

To install the VST3 plugin: make sure your DAW is closed then copy the “BIG.vst3” file from the download file and save it to your VST3 plugin folder (typically C:\Program Files\Common Files\VST3). Restart your DAW and scan the plugins folder from your DAW’s plugin manager.

To install the VST2 plugin: make sure your DAW is closed then copy the “BIG.dll” file from the download file and save it to your VST2 plugin folder (typically C:\Program Files\Steinberg\VSTPlugins). Restart your DAW and scan the plugins folder from your DAW’s plugin manager.

To install the aaxplugin for Pro Tools: make sure your DAW is closed then copy the “BIG.aaxplugin” file from the download file and save it to your Avid plugin folder (typically C:\Program Files\Common Files\Avid\Audio\Plug-Ins). The plugin will be automatically scanned/added the next time Pro Tools is opened.

FOR MAC (“dmg” folder)

To install the VST2, VST3 and/or AU plugins, make sure your DAW is closed then copy the “BIG.vst” and/or “BIG.vst3” and/or “BIG.component” folders from the download file and save them the VST and/or VST3 and/or Component folders on your Mac under /Library/Audio/Plugins.

NOTE: On Mac OS 10.13 and later a reboot may be required before AU plugins will show up in your DAW(s) – and is typically required for Logic Pro X.

To install the AAX plugin for Pro Tools: make sure your DAW is closed then copy the “BIG.aaxplugin” file from download file and save it to your Avid plugin folder (typically /user/Library/Application Support/Avid/Audio/Plug-Ins). The plugin will be automatically scanned/added the next time Pro Tools is opened.

REGISTRATION

BIG will be operating in demo mode when first installed and will operate unrestricted for 14 days. At the end of 14 days the demo will cease output unless a license is purchased. To install your license, click on the registration at the bottom left corner of the plugin window; copy and right-click paste the registration code from your purchase receipt then press enter on your keyboard.

NOTE: Internet connection is required during registration. If your system is typically isolated from the internet for security or performance reasons you may disconnect after the plugin shows “Registered to: your name”.

NOTE: Many DAWs “cache” plugins and may not show the plugin as “Registered to: xxx” until the plugin is removed from a track or bus and re-loaded. Restarting the DAW will also refresh the plugin.

Answers to common registrations issues can be found on our [website FAQ page](#).

A WORD ABOUT MONO-TO-STEREO

BIG is designed to function as a 1-2 (Mono In/Stereo Out) and 2-2 (Stereo in/Stereo Out) plugin. Some DAWs – such as Cubase – process mono tracks entirely as mono even when the output is assigned to a stereo bus (like an analog console). All insert effects on such a track are processed as mono in/mono out. In this case **BIG** will not produce a stereo output and, in fact, may not produce any processed output at all because it does not support mono in/mono out. In that case, insert **BIG** on the stereo bus to which the mono output is being routed OR convert that mono track to stereo (dual mono).

In other DAWs like Pro Tools inserting **BIG** on a mono track will generate a stereo signal at that point. Every plugin downstream from **BIG** will be in stereo and the usual dual pan pots will appear.

Plugin Controls



A – DETUNE – sets the amount of micro-pitch shift between left and right channels in Cents. One channel is pitched up from the input source while the opposite channel is pitched down by the same amount to maintain average pitch.

B – DELAY – sets the amount of delay time on the pitch shifted signals. When **DELAY SPREAD (C)** is engaged the delay is offset by 2x between left and right channels.

C – DELAY SPREAD – selects whether the same amount of delay is applied to left and right (Out) or split in different amounts to left/right (In). A delay spread produces the widest stereo effect but is not always suitable if it is desired to keep the signal more centered.

D – HIGH CUT and LOW CUT filters – apply only to the generated signals and can be used to limit the range of the effect. The result can be auditioned using the **SOLO** control (F).

E – MIX – sets the amount of generated signal mixed with the source. 0% is fully dry, 100% fully “wet”.

F – SOLO – allows auditioning the generated signal without having to adjust the **Mix** control (E) and allows output of only the generated signal when the plugin is used in a send bus, etc.

G – SWAP L<>R – swaps the final L/R output channels. Swapping can help “fit in the mix”.

H – I/O Trim – allows adjustment of overall output level.

I – BYPASS – soft bypasses the audio processing. Always use this Bypass, and not the DAW’s plugin bypass button, to prevent audio gaps when switching the effect on/off.

J – UI Resize Handle – click and drag to scale GUI up/down by +/-50%. Double-click to reset to default size.

CONTROL MODIFIERS

- 1) Hold down the Ctrl key while dragging or scrolling any rotary control for fine resolution
- 2) Hold down the Alt (Win)/Option(Mac) key and then click on any rotary control to reset that control to its default value
- 3) Double-click on any rotary control to type in a control value.

PLUGIN PRESETS

BIG comes with a basic assortment of built-in presets to get you started. These presets will appear in all versions of the plugin on both Mac and PC however not all DAWs support hard-coded presets for VST3 plugins. If you are using the VST3 version in your DAW and do not see the preset list it means your DAW does not support hard-coded VST3 presets. In that case, please use the VST2 version.

Preset	Effect Action	Suggested Use
Mono>Stereo1	Generates a stereo output from a mono input using Haas delays only.	Use on mono sources/tracks to generate a pseudo-stereo signal
Mono>Stereo2	Generates a stereo output from a mono input using Haas delays over limited frequency range, mixed with mono source for solid bass centering.	
Mono>Stereo3	Generates a stereo output from a mono input using both detune and Haas delays over limited frequency range, mixed with mono source for solid bass centering.	
BIG Stereo	Enhances a stereo source, adding fullness and width.	Mix buses and as a light touch in mastering. Especially nice to add fullness in chorus sections.
BIG Rhodes	Generates stereo from mono sources and widens/thickens stereo sources – nice on Rhodes piano, etc.	Piano and synth tracks in mixing
Male Vox 1	Generates stereo from mono sources and widens/thickens stereo sources. HIGH CUT and LOW CUT filters set to reduce sibilance and low boom in male voice ranges.	Male vocal tracks and buses in mixing
Male Vox 2		
Female Vox 1	Generates stereo from mono sources and widens/thickens stereo sources. HIGH CUT and LOW CUT filters set to reduce sibilance and low boom in female voice ranges.	Female vocal tracks and buses in mixing
Female Vox 2		
AC Guitar	Generates stereo from mono sources and widens/thickens stereo sources – nice on acoustic guitar, etc.	Acoustic guitar tracks and buses in mixing
Bass Guitar 1	Applies time and pitch shift to thicken and slightly widen bass guitar while keeping the stereo image mostly centered.	Bass guitar and synth tracks in mixing
Bass Guitar 2	Wider image than Bass Guitar 1 using stereo SPREAD control	

HOW TO USE BIG

BIG should typically be used as an INSERT effect on tracks and buses but can be used as a SEND effect if desired. All outputs from **BIG** are latency compensated in your DAW (make sure your DAW's plugin latency compensation is turned on!). Start with the presets and experiment from there!

NOTE: When used on sound sources with sustaining tones the plugin can produce a slow tremolo effect due to the phase cancelation ("beating") of the detuned sound being mixed with the source. This adds a nice "motion" to the sound but, if undesirable, can be reduced by reducing the Mix control or eliminated entirely by switching to Solo mode or by engaging the Delay Only control.

LICENSE INFO

By installing this software you agree to use it at your own risk. We do our best to thoroughly test our plugins before release but it is simply impossible to test every conceivable situation. We cannot be held responsible for any damages caused as a result of use of this product. If a problem arises please contact us with a description of the problem and as much information as you can provide (DAW, DAW version, OS and version, error messages, etc.).

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Updates: You are entitled to free updates until the next major version number. **Please retain your purchase download link and registration key.** The developer makes no guarantee that this product will be maintained indefinitely.

Moving to another computer:

To move your plugin to another computer you can "De-Register" the plugin using our De-Register app that can be download anytime from our [FAQ webpage](#).

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