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# Voxengo Shinechilla User Guide



Version 1.2

<https://www.voxengo.com/product/shinechilla/>

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## Introduction

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Voxengo Shinechilla is an experimental creative sound effect plug-in for professional sound and music production applications. Shinechilla allows you to generate and blend 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> harmonics with the original dry sound. The harmonic generation process offered by Shinechilla is quite unique on the plug-in market since it produces almost no intermodulation distortion.

Shinechilla is mainly usable for solo instrument processing where it literally “shines” by producing convincing and full-bodied harmonic coloration. Shinechilla is also unique in that it is able to add harmonic coloration on top of the sound instead of distorting the whole sound. However, the option to saturate the whole sound is also available.

The strength of harmonic coloration added by Shinechilla can be flexibly adjusted over the whole frequency range, for each harmonic. In overall, Shinechilla is a great tool for contemporary electronic music producers and sound designers looking for impressive timbres and sounds.

## Features

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- 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> harmonics generator
- Spectral saturation
- Spectral harmonic level control
- Spectral threshold control
- Stereo and multi-channel processing
- Internal channel routing
- Channel grouping
- Mid/side processing
- Up to 8x oversampling
- 64-bit floating point processing
- Preset manager
- Undo/redo history
- A/B comparisons
- Contextual hint messages
- All sample rates support
- 60 ms compensated processing latency

## Compatibility

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This audio plug-in can be loaded into any audio host application that conforms to the AAX, AudioUnit, VST or VST3 plug-in specification.

This plug-in is compatible with Windows (32- and 64-bit Windows XP, Vista, 7, 8, 10 and later versions, if not announced otherwise) and macOS (10.11 and later versions, if not announced otherwise, 64-bit Intel processor-based) computers (2.5 GHz dual-core or faster processor with at least 4 GB of system RAM required). A separate binary distribution file is available for each target computer platform and audio plug-in specification.

## User Interface Elements

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**Note:** All Voxengo plug-ins feature a highly consistent user interface. Most interface elements (buttons, labels) located at the top of the user interface are the same in all Voxengo plug-ins. For an in-depth description of these and other standard features, and user interface elements, please refer to the “Voxengo Primary User Guide”.

### Envelopes

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This panel displays parameter envelope control surface. Please refer to the “Voxengo Primary User Guide” (namely, the topic called “Standard Controls – Envelope Editor”) for in-depth information about this control surface’s functions. This panel is similar to the one found in Soniformer plug-in.

Shinechilla is controlled by means of parameter envelopes. Each parameter's envelope is defined across the audible frequency range. Values on the right of the envelope control surface show the scale of the spectrum analyzer. Values on the left side show the scale of the currently selected parameter envelope.

Note that you may engage the “narrow-band sweeping” function by clicking the left mouse button on the control surface while holding the “Ctrl” (“Command” on Mac OS X) key. This function allows you to listen to a selected narrow spectral band in order to detect unwanted sonic resonances which can then be tamed by adjusting suitable parameter envelopes.

The “Threshold” envelope specifies the threshold level for harmonic generation. If the signal passes this level, the strength of the created harmonics will be very high.

The “2<sup>nd</sup>”, “3<sup>rd</sup>” and “4<sup>th</sup> harmonic” envelopes specify the output level of the corresponding generated harmonics.

The “Sat” envelope controls the threshold level of an additional saturation stage that is applied to the sum of the dry signal and generated harmonics. This stage works as an additional saturation effect which you may use even without using the harmonics generation much. The “Sat Enable” switch should be on for this envelope to have an effect over the sound.

The “Out Gain” envelope works similarly to an equalizer.

The “Underlay Env” selector allows you to underlay a specified envelope from a specified channel group under the currently selected envelope.

The “Display” selector chooses the type of spectrum to display for the currently selected envelope: Off – disable spectrum display completely; Input – input spectrum display (in decibel); Output – output spectrum display (in decibel).

The “Sat Enable” switch enables saturation stage controlled by the “Sat” envelope.

You may have noticed a relatively high CPU load this plug-in has. This is due to the fact the input signal is divided into 32 spectral bands that are then processed independently of each other. It is suggested to use Shinechilla together with the “track freeze” function of the audio host application.

## Credits

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DSP algorithms, internal signal routing code, user interface layout by Aleksey Vaneev.

Graphics user interface code by Vladimir Stolytko. Graphics elements by Vladimir Stolytko and Scott Kane.

This plug-in is implemented in multi-platform C++ code form and uses “zlib” compression library (written by Jean-loup Gailly and Mark Adler), “LZ4” compression library by Yann Collet, filter design equations by Magnus Jonsson, VST plug-in technology by Steinberg, AudioUnit plug-in SDK by Apple, Inc., AAX plug-in SDK by Avid Technology, Inc., Intel IPP and run-time library by Intel Corporation (used under the corresponding licenses granted by these parties).

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**Happy Mixing!**