



# Duality

hybrid vibrato

**AAX + AU + VST** effect plugin for Mac/Windows/Linux

Designed and developed by **Sinevibes** ©2026

# INTRODUCTION

**Duality** is a hybrid vibrato. While it's somewhat similar in nature to a phase shifter, in this effect, the notches in the frequency spectrum and the phase modulation are created separately – using multiple different DSP algorithm blocks. With this unique setup, **Duality** makes it possible to control the spectrum notch emphasis independently from vibrato, and is capable of producing cleaner and deeper pitch modulation – akin to a rotating speaker. The plugin also avoids sound coloration and latency since it uses no feedback and no delay lines. **Duality** works exceptionally well on instruments like electric guitar, electric piano, tone-wheel organ as well as mellow synths or bells – adding an incredibly beautiful, hypnotizing vibe, while also being able to go into psychedelic effect territory at more extreme settings.

# SPECIFICATIONS

## SOUND ENGINE

- Hybrid algorithm comprised of multiple DSP blocks that create separately spectrum notches and pitch modulation
- No use of feedback or delay lines for minimum sound coloration and zero output latency
- Modulation frequency can be set in Hz or as host tempo fraction with precise transport location sync
- Variable bipolar stereo phase offset
- Lag filters on all continuous parameters for smooth, click-free adjustment
- Supports mono > mono, mono > stereo, and stereo > stereo channel configurations

## GRAPHIC INTERFACE

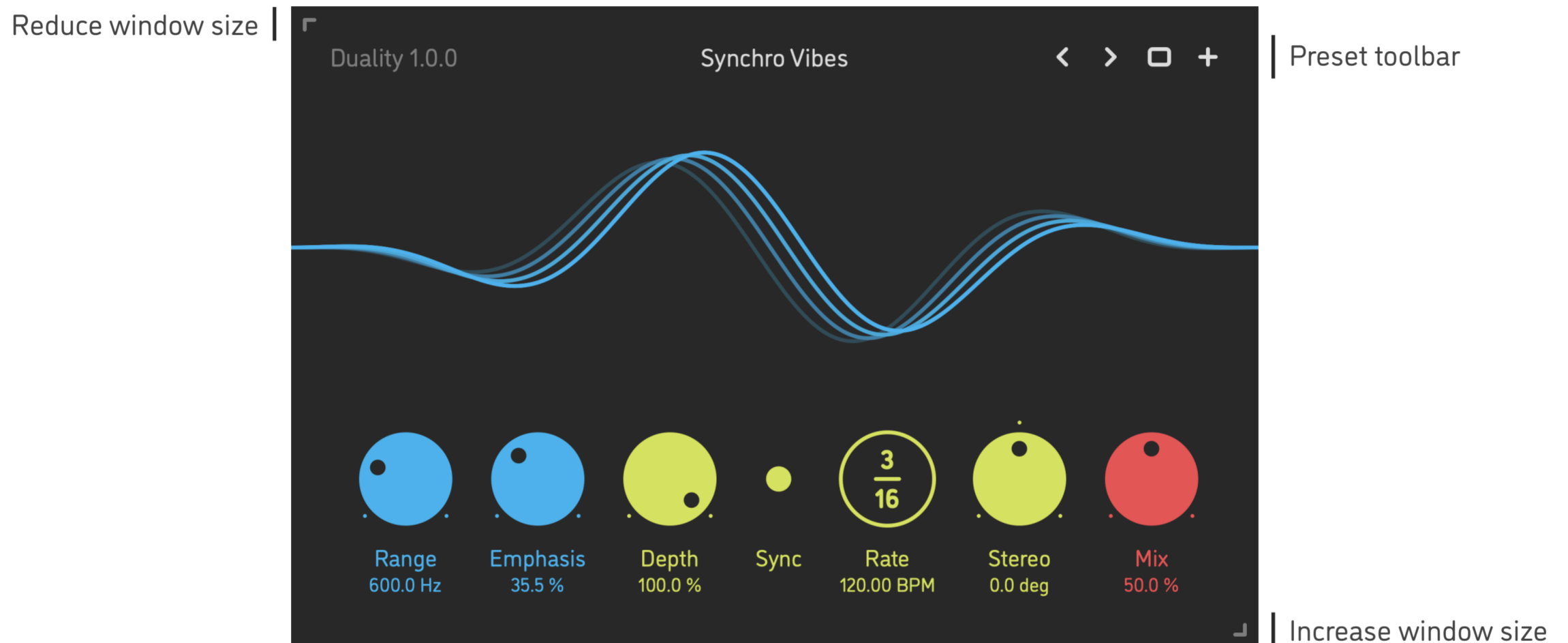
- Color-coded graphic elements
- Consistent name, mapping, value, and unit implemented for all parameters in both graphic user interface and host control/automation
- Built-in preset management functions
- Supports window size scaling up to 200%

## SUPPORTED FORMATS

- **Mac:** AU/VST3/AAX for macOS 10.13 or newer (64-bit Apple Silicon and Intel)
- **Windows:** VST3/AAX for Windows 8.1 or newer (64-bit Intel and AMD)
- **Linux:** VST3 for Linux 2020 or newer (64-bit Intel and AMD)

# INTERFACE

**Duality** features a fully vector-based interface, with color-coded elements for effective visual grouping. The interface allows you to change its window size from 0.8× to 2× in 20% increments. The last size you set is stored in a preference file and is recalled the next time **Duality** is loaded.



- Hold *shift* and drag a knob to adjust the parameter with increased resolution.
- Use *option-click* (Mac) or *alt-click* (Windows, Linux), or *double-click* any knob to recall its default setting.
- To fully initialize all plugin's parameters, load the preset named *Default* from the *Factory* or the *User* bank.

# PARAMETERS

Range	400 .. 1200 Hz	Adjust the effect's base frequency: this affects the position of the spectrum notches and the range of the phase shifts
Emphasis	0 .. 100 %	Adjust the amount of emphasis (width) of the spectrum notches
Depth	0 .. 100 %	Adjust the amount of modulation applied onto the base frequency
Sync	On / Off	Defines whether the vibrato modulation frequency is set in Hz or as a fraction of the host tempo; when this switch is on, the modulation phase is also being continuously synchronized to the host transport location
Frequency	0.05 .. 20 Hz	Vibrato modulation frequency in Hz ( <b>Sync</b> switch is off)
Rate	1/32 .. 32/1	Vibrato modulation frequency as a host tempo fraction ( <b>Sync</b> switch is on) The flanger sweeps are endlessly moving upwards with positive frequency values (+) and downwards with negative values (-)
Stereo	-180 .. +180 °	Modulation phase difference within the stereo field: the right channel is shifted forwards (+) or backwards (-) in relation to the left channel by up to half cycle
Mix	0 .. 100 %	Balance between dry input signal and wet processed signal

# PRESETS

**Duality** features simple built-in functions for saving and loading presets, as well as for quickly switching between presets within the same bank. All these functions are accessed via the top toolbar.

Preset Name

Click the preset name at the top to show the list of presets in the current bank. Use *command-click* (Mac) or *control-click* (Windows, Linux) to reveal the actual preset file in the system file browser.



Switch to the previous preset in the current bank. The current bank is automatically set to wherever the last preset was loaded from.



Switch to the next preset in the current bank.



Show open file dialog with the list of preset banks. By default, the plugin includes two banks: *Factory* and *User*. However, you can freely create additional banks – simply by creating new subfolders.



Save current preset. Please note: due to the limitations of the typeface, you can only use latin letters when naming your presets



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