

# Scanner Vibrato



## User Manual

English (US)

Version 1.2.0



# Table of Contents

<b>Introduction</b>	3
<b>A Brief History</b>	3
<b>Our Scanner Vibrato</b>	3
<b>Free Trial</b>	3
<b>Installation</b>	4
<i>System Requirements</i>	4
<i>Windows Installation</i>	4
<i>Mac Installation</i>	6
<b>Loading Scanner Vibrato</b>	8
<b>Getting Around</b>	8
<i>Using the controls (plus fine-tuning and value entry)</i>	9
<i>FX view and Settings view</i>	9
<b>How it Works</b>	10
<b>Using the controls</b>	10
<i>Shift and Double-click</i>	11
<i>On/Off</i>	11
<i>Vibrato/Chorus</i>	11
<i>Model, Sync and Volume</i>	12
<i>Rate-1 and Rate-2</i>	13
<i>Link and Width</i>	13
<i>Depth</i>	14
<i>Mix</i>	14
<b>Default Presets</b>	14
<b>Full Features List</b>	15

# Introduction

Thank you for purchasing or trying Martinic Scanner Vibrato.

Scanner Vibrato is a virtual effect plugin that aims to recreate the scanner-vibrato effect from a well-known tonewheel organ.

## A Brief History

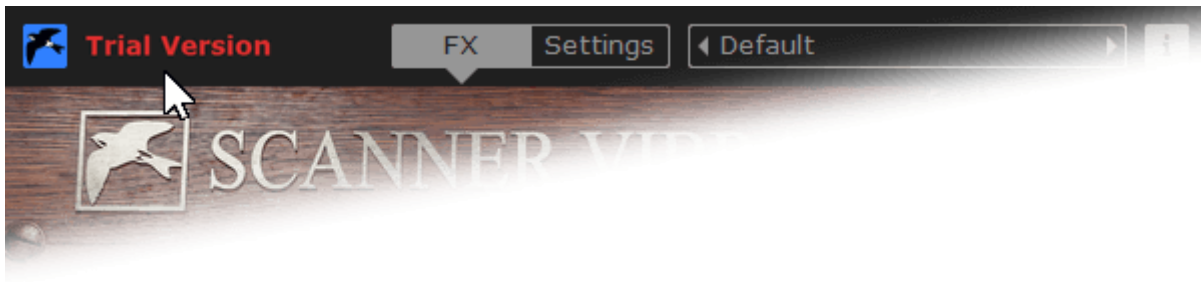
The original scanner-vibrato was developed in the 1940s and was an analog, electromechanical device, consisting of an analog delay line and a mechanical rotor (“scanner”). The rotor was driven by the organ's internal motor, and therefore its rate was fixed at about 6.9Hz. The original scanner-vibrato could produce both chorus and vibrato effects, and it offered three depth presets.

## Our Scanner Vibrato

Martinic Scanner Vibrato is modeled closely on the original scanner-vibrato, offering the same features (and flaws) to perfectly preserve the character of the original effect. However, Scanner Vibrato is more flexible: you can adjust the rate, depth, and even stereo width. And best of all, you can apply Scanner Vibrato not only to organ sounds, but also to guitar, synthesizer, or whatever sound you like.

## Free Trial

Before purchasing a license, you are allowed to try Scanner Vibrato free of charge for up to 30 days for testing purposes and in non-published work.



When Scanner Vibrato runs in demo mode, once every minute the user interface will display Trial Version in red, and white noise is added to the output signal.

## Installation

### System Requirements

Scanner Vibrato is available as **VST 2.4**, **AU** (Audio Units), or **CLAP** (CLever Audio Plugin) effect plug-in, which means it needs to run inside VST, AU, or CLAP hosting software, e.g. Ableton Live, Cubase, GarageBand, Logic Pro, REAPER, Studio One, etc.

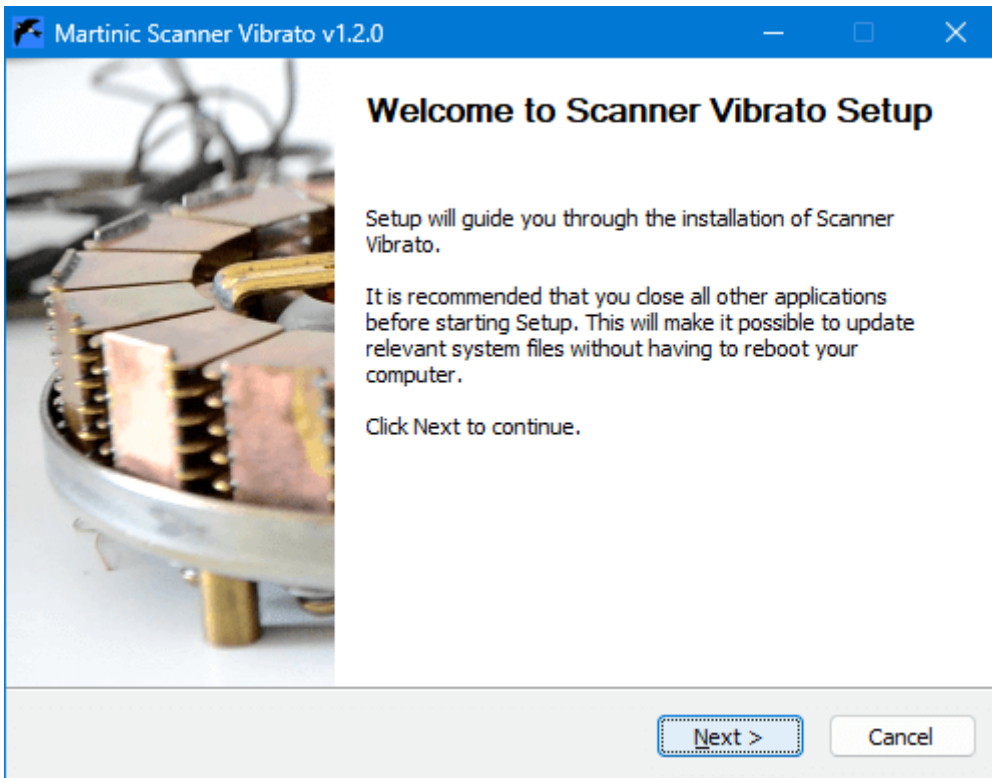
Although Scanner Vibrato should be able to run at any sample rate the host provides, a rate of at least 44.1 kHz is recommended.

Scanner Vibrato is designed to run on **Windows 7** or newer, or **Mac OS X 10.9** (Mavericks) or newer.

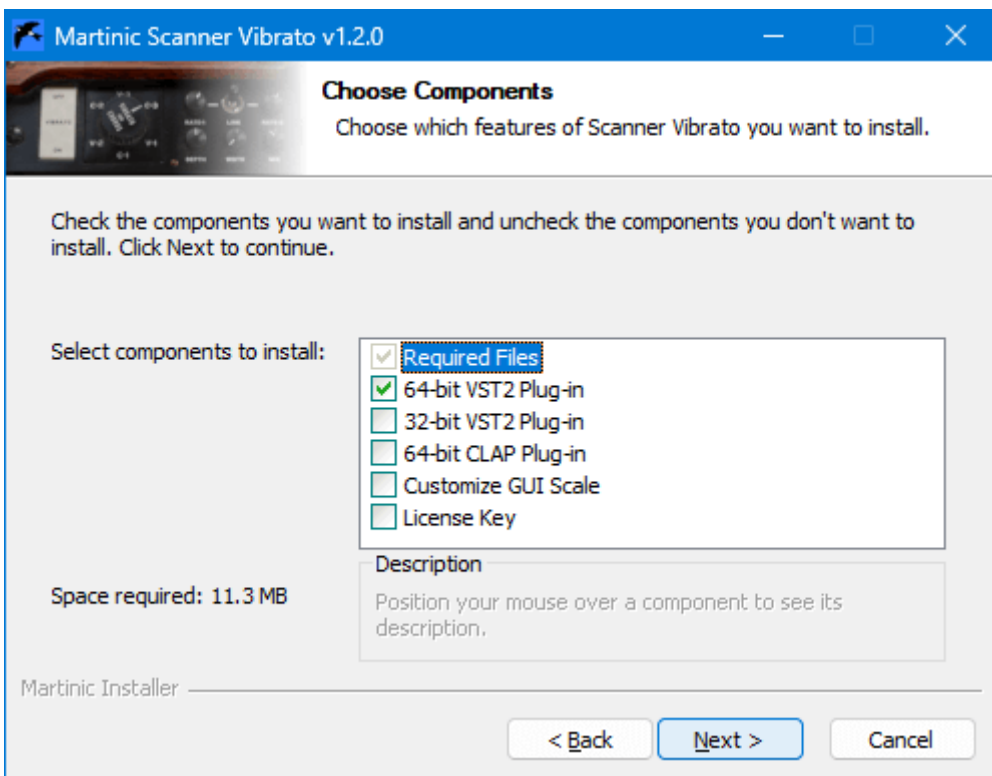
### Windows Installation

To install Scanner Vibrato on Windows, download the Windows 32/64-bit VST/CLAP installer, and save it on your computer (e.g. in your Downloads folder).

Navigate to this folder, locate the installer and double-click on it, and then click on the **Next** button to start the installation process.



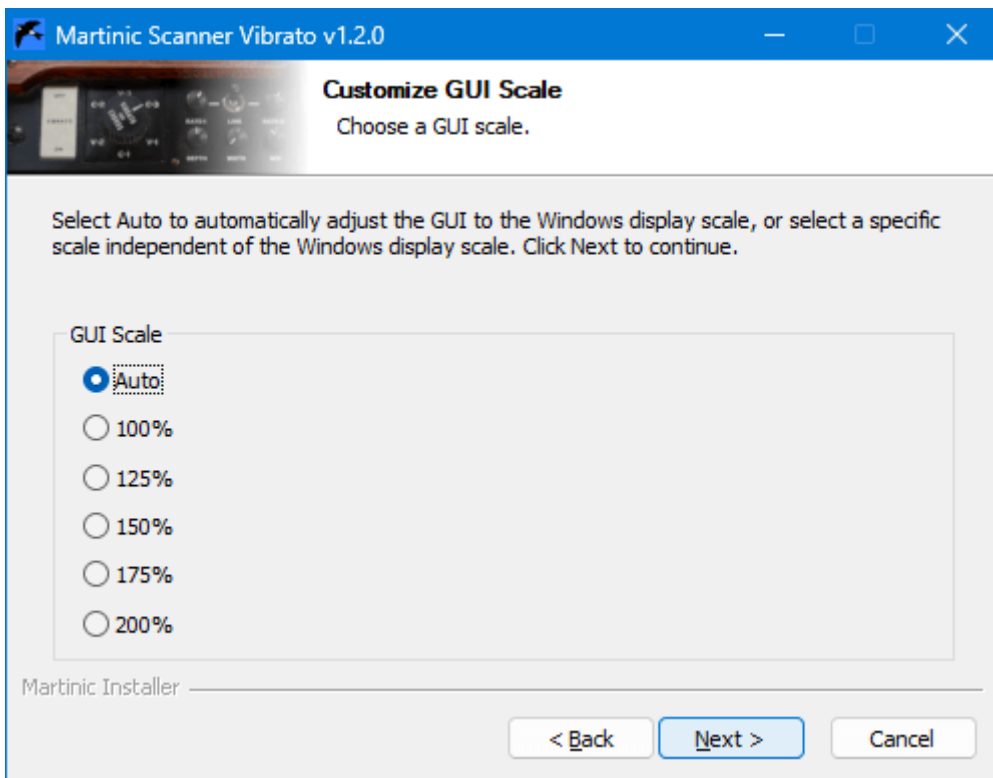
Carefully read the license, and then click on the **I Agree** button to continue. Next select which versions of the plugin you want to install. Select **Customize GUI Scale** to manually override the scaling factor of the plugin in a later screen. Optionally you can select **License Key** if you have purchased a license. Click on the **Next** button to continue.



Optionally change the install location, and again click on the **Next** button. Then select your VST2 32-bit and/or 64-bit plugin folder, and optionally select your license key file (if you

have purchased a license), confirming each selection by clicking on the **Next** button.

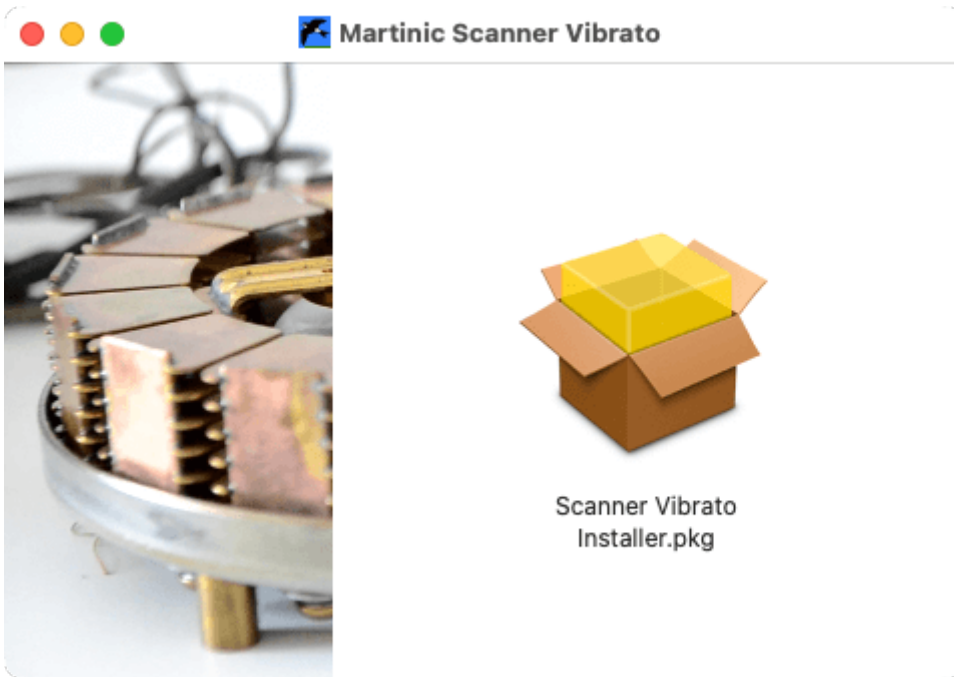
If you have previously chosen to customize the GUI scale, you will be able to select different options before selecting **Next** to begin installation.



Now wait for the installation to complete (this should take only a few seconds), click on the **Close** button, and you are ready.

## Mac Installation

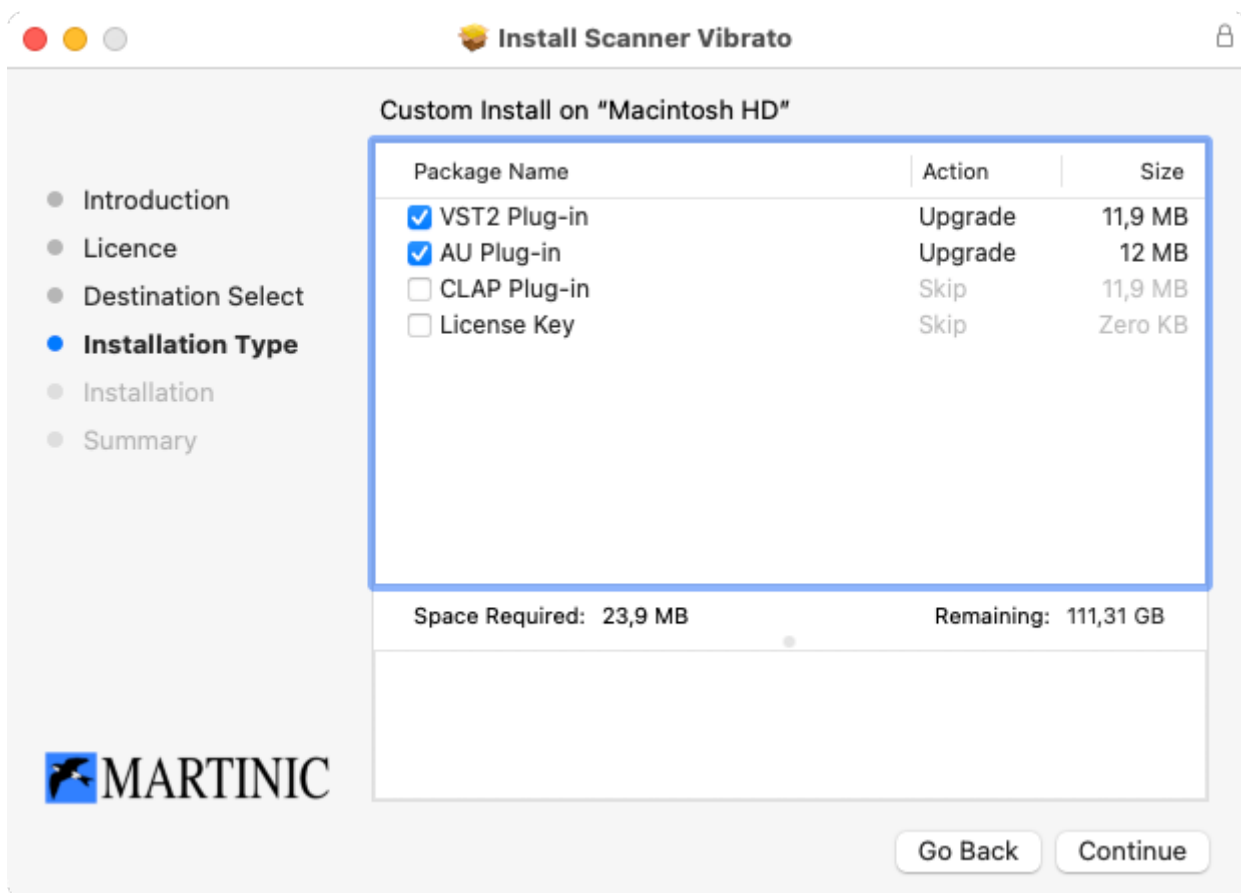
To install Scanner Vibrato on Mac OS X or macOS [download](#) the Mac 64-bit VST/AU/CLAP installer disk image (DMG), and save it on your computer (e.g. in your Downloads folder).



If you have purchased a license, then you should copy your license key file to the same folder in which you have saved the installer disk image (DMG), so it can be installed along with the plug-in(s).

Navigate to the folder in which you have saved the installer, locate the installer disk image (DMG) and double-click on it, and then double-click on the **Scanner Vibrato Installer.pkg** icon. Click on the **Continue** button to confirm that the installation package will run a program, and then click on **Continue** (in the bottom right corner of the installation window) to start the installation process.

Carefully read the license, click on the **Continue** button, and then click on **Agree**. Next select which versions of the plug-in you want to install (it is recommended that you install both the VST2 and AU versions, just to be sure), optionally select **License Key** if you have purchased a license, and click on the **Continue** button. Optionally change the install location, and then click on the **Install** button.



Now wait for the installation to complete (this should take only a few seconds), click on the **Close** button, and you are ready.

## Loading Scanner Vibrato

Launch your host, and create an audio track or load a project to which you want to add Scanner Vibrato. Please refer to the documentation of your hosting software on how to do this.

Note: Most hosts will list Scanner Vibrato as **Martinic Scanner Vibrato**, but some may list it as **Scanner Vibrato** or **ScannerVibrato**.

Scanner Vibrato is primarily meant to be used as an “insert” effect, which is also the way in which it was originally used. However, it can also be used as a “bus” effect.

## Getting Around

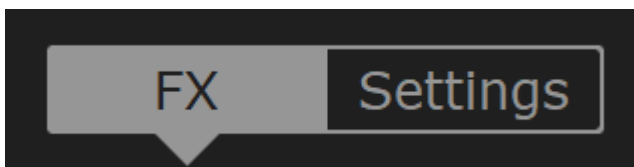
# Using the controls (plus fine-tuning and value entry)

You can adjust controls by clicking and dragging them up or down using the mouse. To fine-tune a parameter to a more exact value, hover your cursor over it, hold the **Ctrl** key (Mac and Windows), and scroll the mouse wheel. You can also right-click on a knob to enter a value using the computer keyboard.

Double-clicking a knob or fader will reset it to its default value.

## FX view and Settings view

The Scanner Vibrato can be used in either FX view or Settings view.



**FX** view allows you to control some of the Scanner Vibrato's parameters, as you would on an organ that has a scanner-vibrato built-in.



Settings view provides an abstracted set of controls for the plugin, giving you control over every parameter on the Scanner Vibrato. Here you can access all the controls, including

master volume, Reverb Mix, Panning Mix, Delay Tape Age and Delay Mono/Stereo.

Scanner Vibrato is a stereo effect, so it is applied to both the left and right channels. When the switch is off the effect is bypassed. Note that this is likely not the same as bypassing Scanner Vibrato in your hosting software, because the input signal is still fed into the effect, meaning that you can turn it on again at any time, smoothly and without any pops or clicks.

## How it Works

The original scanner-vibrato had only a few controls: an **On/Off** rocker switch to bypass or insert the effect, and a rotary selector to choose an effect type, and a depth preset for that type. Martinic Scanner Vibrato offers the same basic controls, as well as several extra controls to tweak the effect to your liking.



You can apply either a vibrato or chorus effect with variable intensity using the rotary selector, and adjust the characteristics of the sound using the **Rate**, **Depth**, **Width** and **Mix** knobs on the right hand side of the plugin.

## Using the controls

You can adjust controls by dragging them up/down using the mouse, or you can use the

mouse wheel while holding the Ctrl key down. You can also right-click on a knob to enter a value using the computer keyboard.

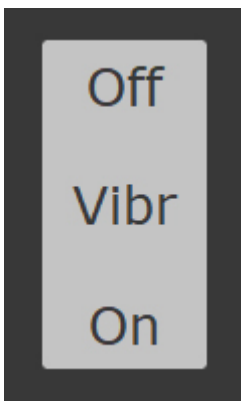
## Shift and Double-click

Holding Shift and dragging a knob on either side of the unit will control the corresponding knob on the opposite channel at the same time.

Double-clicking a knob or fader will reset it to its default value.

## On/Off

On the left, you will find the **On/Off** rocker switch. You can toggle it on/off by clicking on it using the left mouse button, or you can move the switch using the mouse wheel.



Scanner Vibrato is a stereo effect, so when the On/Off switch is on, the effect is applied to both the left and right channels. When the switch is off the effect is bypassed. Note that this is likely not the same as bypassing Scanner Vibrato in your hosting software, because the input signal is still fed into the effect, meaning that you can turn it on again at any time, smoothly and without any pops or clicks.

## Vibrato/Chorus

Next to the On/Off switch, you will find the large Vibrato/Chorus rotary selector. You can change the selector by dragging it up/down using the mouse, or you can use the mouse wheel.

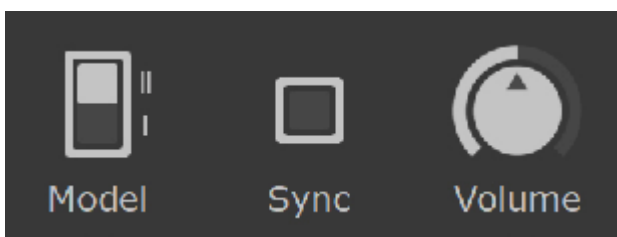


The **Vibrato/Chorus** selector lets you choose from chorus or vibrato modes, and at the same time it also lets you select from three depths, from light to heavy, making for a total of six presets:

- **V-1** – Vibrato/light
- **C-1** – Chorus/light
- **V-2** – Vibrato/medium
- **C-2** – Chorus/medium
- **V-3** – Vibrato/heavy
- **C-3** – Chorus/heavy

## Model, Sync and Volume

The button labelled Model in the Settings view toggles the instrument between the previous v1.0.0 model and the remodeled v1.1.0. The latter is the default when loading the plugin. Different presets are set to different models.

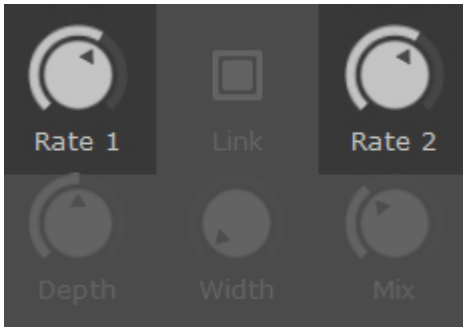


The Sync toggle switch synchronizes the Scanner Vibrato to the tempo of your DAW and switches the Rate knobs from a number to predetermined time signatures.

The **Volume** control ranges from -36dB to +24dB. This is an overall output control, so if you have created a nice balance between the two channels, adjusting the Master knob will preserve this balance, and alter the volume of everything in unison.

## Rate-1 and Rate-2

Using the **Rate-1** and **Rate-2** knobs you can adjust the vibrato/chorus rate, ranging from stationary (0 Hz) up to 15 Hz. When Scanner Vibrato is used in stereo, Rate-1 controls the speed of the effect on the left signal, and Rate-2 controls the speed of the effect on the right signal.

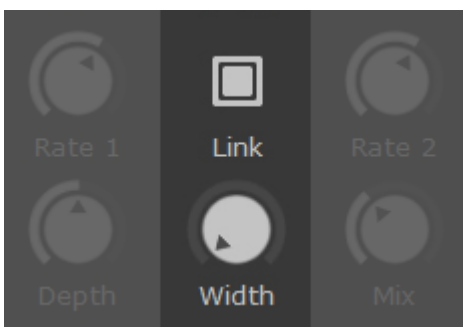


The original scanner-vibrato had a fixed rate of about 6.9Hz, which is the default rate for Scanner Vibrato when the plugin is loaded.

## Link and Width

In between the Rate-1 and Rate-2 knobs you will find the **Link** toggle switch. You can toggle it on/off by clicking on it using the left mouse button, or you can move the switch using the mouse wheel.

When the Link toggle switch is off (down) you can set Rate-1 and Rate-2 independently, and you can use the **Width** knob (below the Link toggle switch) to go from mono (0%) to full stereo (100%), or anywhere in between. At full stereo, you can hear Rate-1 being applied to the left channel, and Rate-2 being applied to the right.



When Link is on (up) Rate-1 determines the rate for both channels, and Rate-2 is ignored. Now you can use the Width knob to change the phase relationship between the left and right channels, where 0% means in phase (mono), and higher values up to 100% increase

the phase difference between the channels.

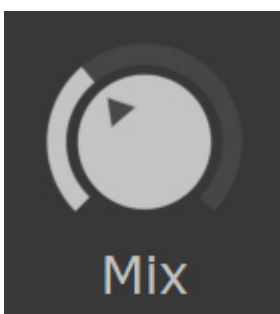
## Depth

The **Depth** knob can be used to further adjust the vibrato depth. At 0% you will get only a tiny bit of vibrato/chorus, but raising the Depth creates more modulation until at 100% it will sound like the emulated electronic contacts need cleaning. This is especially noticeable when the Vibrato/Chorus selector is at a higher setting itself (eg C-3 or V-3).



## Mix

When the Vibrato/Chorus selector is set to a chorus (C) preset, you can adjust the dry/wet mix using the **Mix** knob. At 0% you will get only the (semi) dry signal, at 100% you will get only the wet (vibrato) signal. The default dry/wet mix of 35% will give you the typical tonewheel chorus.



When the Vibrato/Chorus selector is set to a vibrato preset, the dry/wet mix has a fixed value of 100% wet, and the Mix knob is ignored.

## Default Presets

In the VST version of the plugin, the top bar allows you to select between the Default Presets that will be shown in your DAW. You can navigate between these using the left and right arrow keys either side of the name.



Scanner Vibrato comes with 16 factory presets. These include **Classic V-1**, **V-2**, and **V-3**, and **Classic C-1**, **C-2**, and **C-3**, which are modeled on the original vibrato and chorus presets.

## Full Features List

- Chorus/vibrato effect unit from well-known tonewheel organ
- Improved ACE® technique model
- Original C-1/C-2/C-3/V-1/V-2/V-3 depth/mix settings
- Adjustable rate, depth, and mix
- Optional stereo width with separate left/right rates
- 16 presets, from classic chorus/vibrato to rotary-like effects
- Tempo sync
- Output volume control

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