



Petal

VST/AU | User Guide

Rainbow Circuit

Version 2.0 | Edited August 9, 2026

www.rainbowcircuit.co



Installation: Mac OS

Open the installer .pkg file and follow the installation guidelines.

Installation: Windows

Uncompress the .zip file, and move the .vst3 file into:

C:\Program Files\Common Files\VST3

To install the preset file, find:

C:\Users\Public\Documents

And add a child folder \ **Rainbow Circuit \ Petal**

The directory should look as follows:

C:\Users\Public\Documents\ Rainbow Circuit \ Petal

The host DAW may require a plug-in rescan, or a computer restart for Petal to appear in the DAW.

Petal Overview

Petal is a pitch-shifting multi-tap delay plug-in.

Building on guitar pedal-like simplicity, Petal allows the musician to flutter form out from a handful of notes, or bathe in the fountain of arpeggiated feedback.

Originally in the realm of Max for Live, this Petal adds a dedicated plate reverb, a decisively analog-style pitch shifter, and controls for more color and character.

Welcome to the garden of earthly delays.

Delay

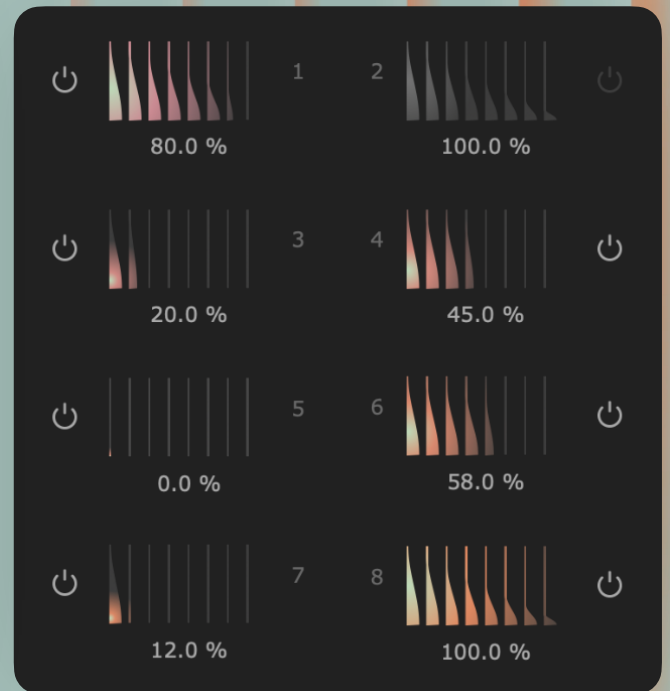
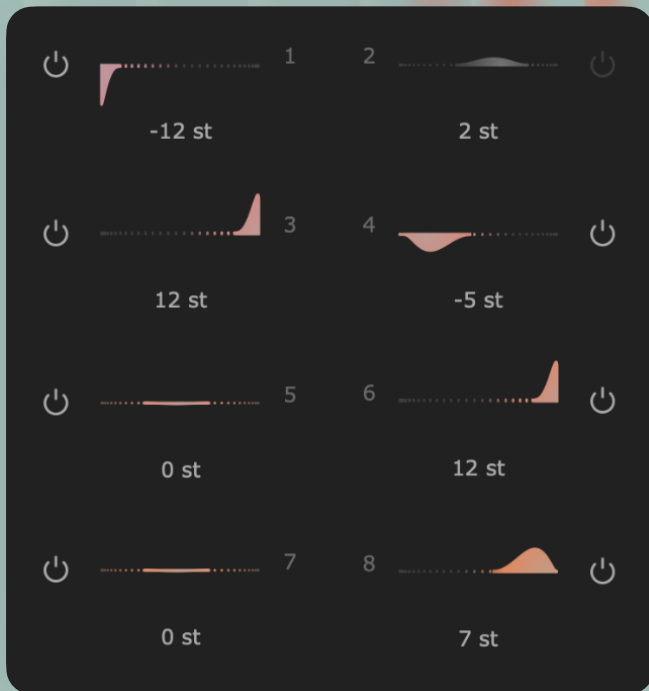
Petal's foundation is its eight-tap delay, spaced evenly over multiples of the set delay time.

Each channel's delay time can be set free in milliseconds, or synced in musical subdivisions. When **stereo lock** is enabled, the both channels share the same delay time.

The tap spacing can be modified by using **position** and **skew** controls. In negative values, skew pulls the taps inward, while in positive values it pushes outward, its anchor set by the position.



Round snaps the tap spacing to the closest quantized value, allowing for playful but musically synced rhythms.



Tap Controls

Each delay taps have individual controls for **state**, **pitch-shifting**, and **reverb send amount**.

Feedback

Petal's feedback uses a dedicated delay line, separate from the main tap delay. The feedback **length** can be set to a specific number of taps for smaller or larger feedback echoes.

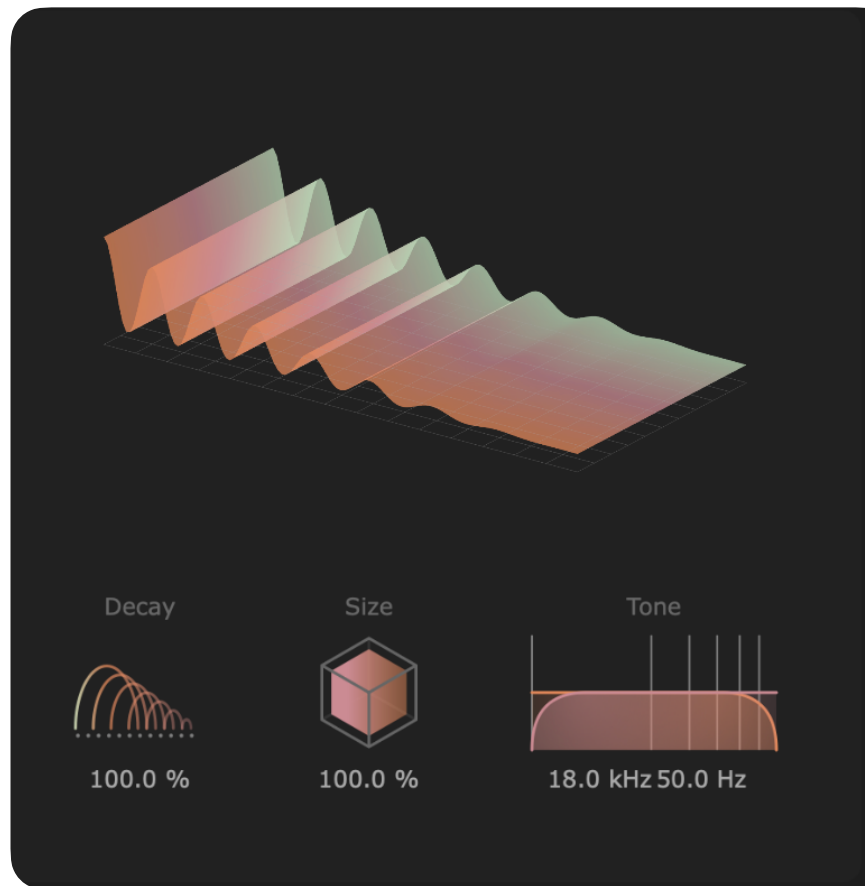
Reverb Controls

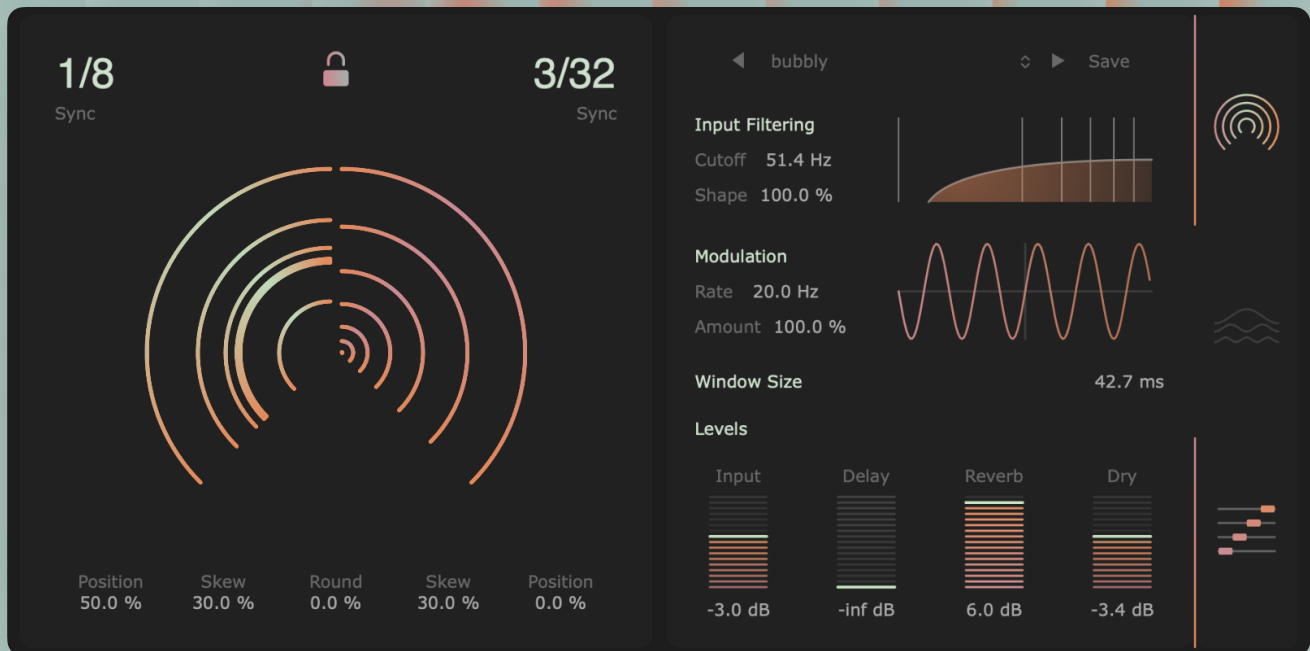
Petal's lush plate reverb algorithm adds increased blend and spread to the tap delay.

Decay time sets the length reverb tail.

Size sets the apparent size of the plate. Large values will increase the diffusion quality of the reverb, while small values will introduce more coloration.

Tone sets the cutoff frequency of the high-pass and low-pass filters inside of the reverb algorithm for frequency dependent dampening.





I/O Section

The I/O section consists of a handful of controls for shaping Petals character.

Input filtering applies a gentle 12 dB per octave filtering to the delayed signal. **Shape** modifies the filter type from low-pass, bandpass to high-pass.

Petal uses a granular delay pitch-shifting algorithm. **Window size** can be adjusted for cleaner transients or cleaner formants.

Modulation creates pitch wobbling by gently modulating the delay time with an LFO.

Level controls allow the delay, reverb, and the dry signal levels to be set in parallel.

Lastly

Thank you for purchasing Petal. If you have any questions, comments or just want to say hi, reach out to hey@rainbowcircuit.co.

Rainbow Circuit is dedicated to creating instruments of our times. For more information, visit www.rainbowcircuit.co.

Developed by Takuma Matsui. Reverb design consulted with Dr. Ryan Page.

