

ImPerfect Manual



Introduction

ImPerfect is a unique synthesizer plugin.

It combines the advantages of the digital world while preserving a lot of the features and character from the analog world. Designed to bring you endless versatility while keeping everything simple and straight forward for anyone who played a synthesizer before.

The Modules

Lets take a look at the different modules within the synthesizer.

Oscillators

There are 5 oscillators: Osc1, Osc2, Sampler, Sub and Noise.

Osc1 & Osc2 have a rotary knob which lets you choose between the 4 main waveforms: Saw, Sine, Triangular and square, or any combination between them.

Each Osc have an octave switch, detune, and pulse width controls.

Osc1 have a ring modulation control which mix the ring mod signal with Osc1 signal. The ring signal is modulated by Osc2.

Osc2 have a FM (frequency modulation) control which modulate Osc2 freq by the signal of Osc1.

The Sampler tuning controls are the same as Osc2 tuning controls.

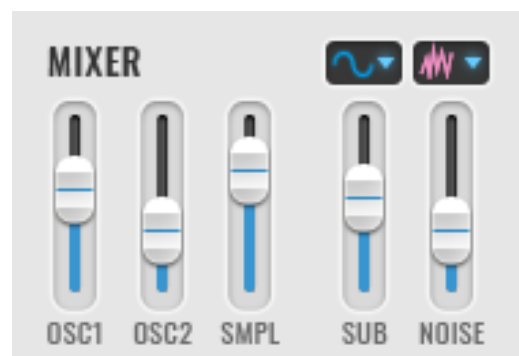
The Sub Oscillator is always 1 octave down from Osc1.



Mixer

Set the output gain from each oscillator and mix all of the signals together.

You can also choose the waveform of the sub oscillator and the noise color of the noise oscillator.

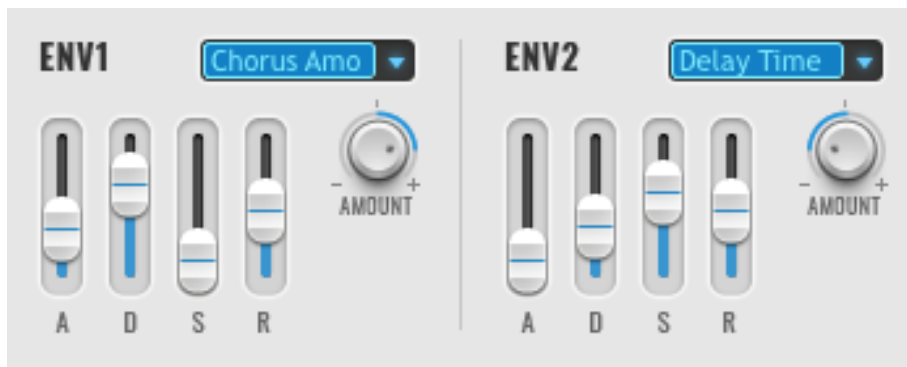


Filter

An analog style 24db/oct variable state filter. Drive will add analog saturation to the signal. Envelope 1 is routed directly to the filter so you don't need to choose it from the envelope menu. Keyboard Tracking will increase the cutoff frequency depending on the height of the note played.



Envelops



Envelope 1 is connected to the filter cutoff and Envelope 2 is connected to the VCA controlling the gain of each note. In addition you can choose from the drop menu any modulation target and set the amount knob to modulate it with positive or negative values.

LFOs

The low frequency oscillators can modulate any destination from the dropdown menu. Click the SYNC button to sync the LFO rate to your host BPM.



Effects

The effects section contain a phaser, chorus and delay stereo effects.

A mono signal comes from the output of the filter and splits to the 3 parallel connected stereo effects, which are summed at the output into one stereo signal.



X / Y Pads

The x/y pads lets you modulate 2 different targets – 1 for the x axis and one for the y axis.

A mode – the circle will always come back to the center once you let go of it.

B mode – grab the circle by clicking on it, drag and release. The circle will continue bouncing endlessly.

C mode – just like B mode but here the circle will gradually slow down until it stops completely.



Arpeggiator

Click the ARP button to switch the arpeggiator on. Choose the up or down modes and how many octaves (1-4) it will go through. The Rate can be sync to the host BPM or run independently. When ARP is on, the POLY and MONO buttons are controlling the arpeggiator LATCH on/off.

LATCH OFF – the arp will play as long as you are pressing a note.

LATCH ON – the arp will start to play when a note (or number of notes) is pressed, and continue to play even on notes release. Press another note (or notes) again to change the notes.



Global Control

Tune – control the global tune of the synth.

Glide – (mono only) the notes pitch will glide from one note to the next.

POLY/MONO – choose between monophonic (1 note plays at a time) and polyphonic (up to 16 voices at a time).

Master Gain – control the main volume of the synth output.

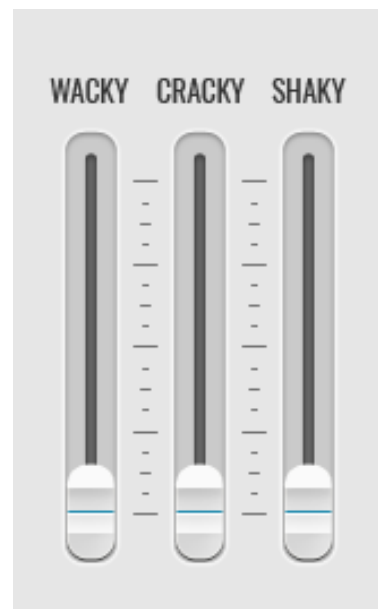


Wacky, Cracky and Shaky

Wacky – increase the amount of the 3 effects.

Cracky – adds analog style saturation to the output signal (including the effects signal).

Shaky – modulate the global tune with both LFOs and Env1 signals, changing from a slight detune into extreme pitch modulation effect.



Scope

Lets you see the visual shape of the output signal as well as a stereo meter of the output signal.



Presets Manager

Browse to choose the preset you like. Click load or double click to load it and close the presets manager window.

If Auto Load is enable, clicking a preset will temporarily load it for you to try, you can use the up and down arrow keys on your keyboard to browse and try each preset. When

you found the one you like, click load or double click it.

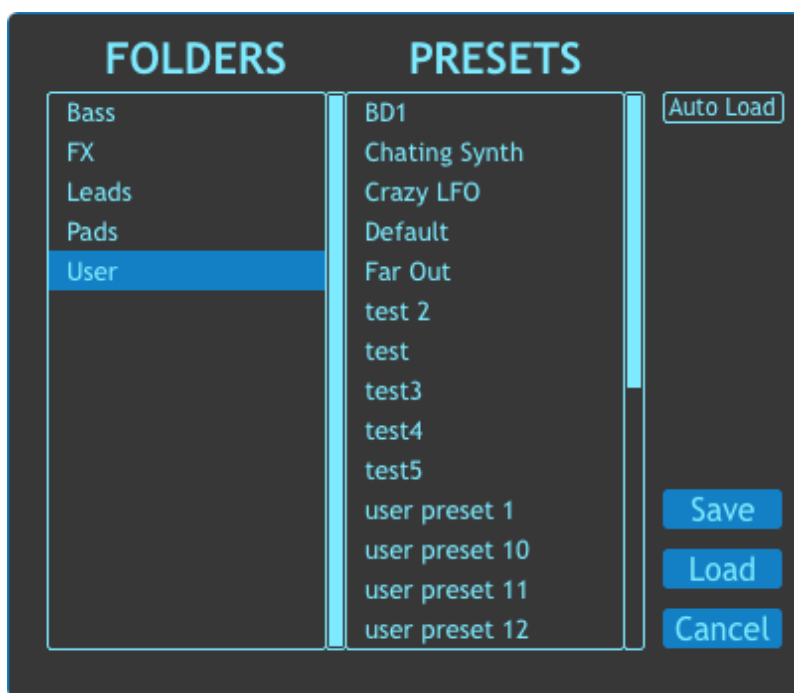
Save – after you make your own sound, open the presets manager and click Save. Give it a name and save it in one of the subfolders on your presets folder.

The path to the presets folder is -

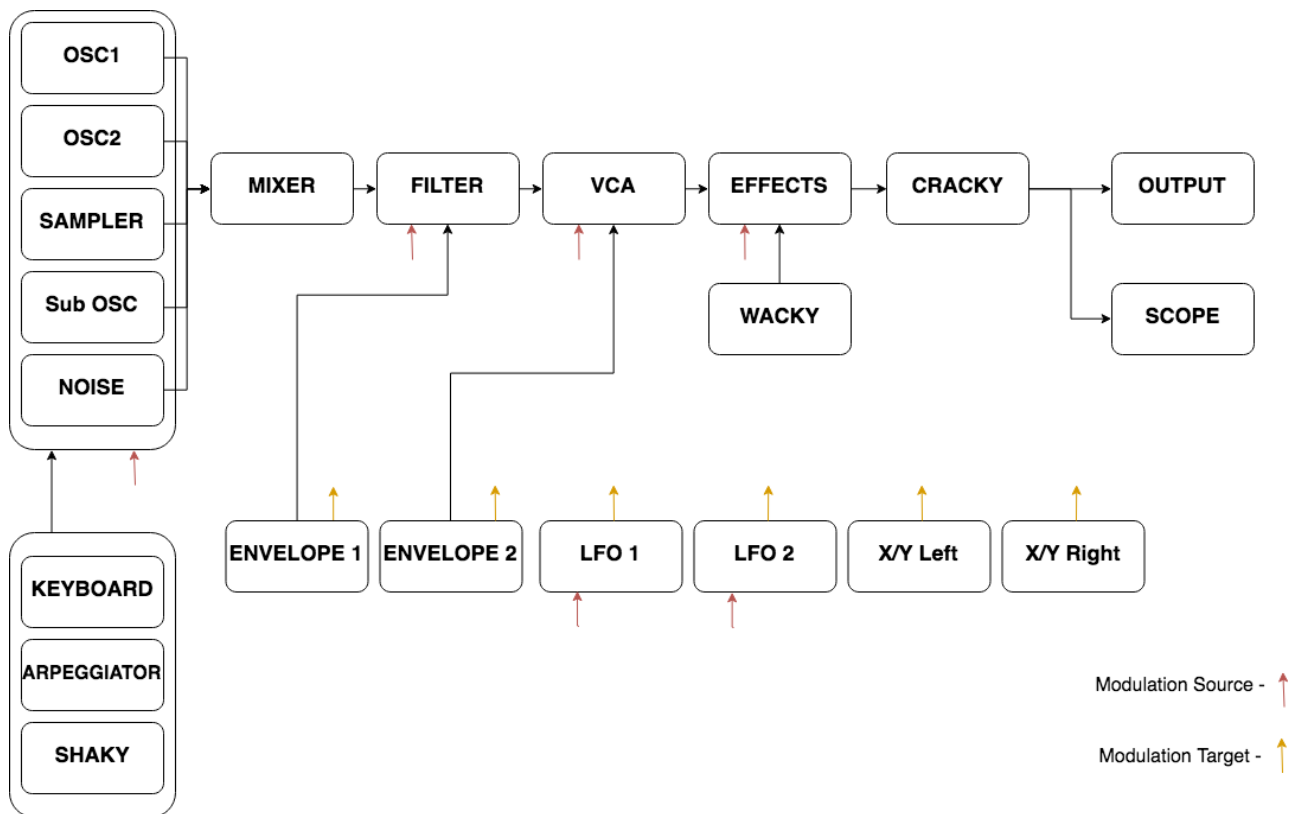
Mac – “userfolder”/Library/Application Support/ImPerfect-Presets/

Win – C:\Users\“userfolder”\AppData\Local\ImPerfect-Presets\

* If you are saving a preset with a sampled file – if the file is not found in its original path, the sampler will look for it in the “Audio” folder inside the presets folder. Therefore it is safe and wise to copy the audio file into the “Audio” folder to prevent losing it in the future and making sharing of presets more easy.



Basic Block Diagram



Parameters Behavior

- Double click any knob to reset it to its default state.

Installation

- Make sure to remove first any previous or demo version you might have.
- Click the installation file and follow the instructions.