

CYBERSUB



USER GUIDE

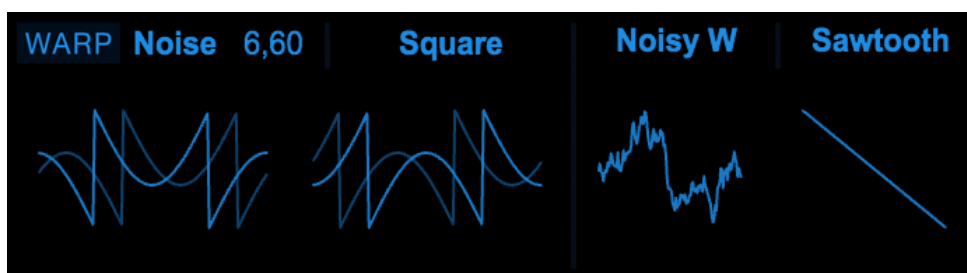
Interface



Oscillators:

CyberSub has three oscillators, the stereo unison oscillator and two sub oscillators, as well as the option to mix in wave samples to change the transient or punch of a preset.

Use the main display in the top left corner to change waveforms, warp modes or the phase of the sub waves.



Display controls (left to right):

Unison oscillator warp mode & amount.

Unison oscillator waveform select.

Sub oscillator 1 waveform select.

Sub oscillator 2 waveform select.

Click and drag with the mouse on the drawn waveforms to change:

The index of the wavetables in the unison oscillator.

The phase of the individual sub oscillators.

Unison oscillator knob controls:

These controls only have an effect on the unison oscillator. Use it to alter the sound of your patch outside of the sub.

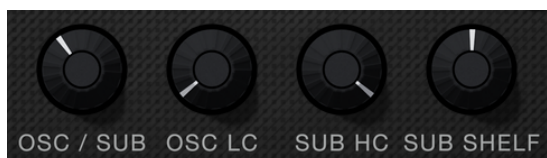
Osc Index	Modifies the index of the wavetables.
Osc Index Spread	Offsets the individual index values.
Osc Rnd Phase	Randomizes the phases of the waveforms.
Osc Detune	Detunes the pitch of the waveforms.
Osc Octave	Modifies the octave.
Osc Semi	Modifies the semitone.
Osc Semi Split	Modifies the semitone of only two of the four waves.
Osc Index LFO	Amount of a pre set LFO modulating the index.
Osc Drive Mix	Mix between a dry or distorted waveform (post filter).



Mix controls:

This is where you set the balance between the unison osc and the sub.

Osc / Sub Mix	Main mix between the unison oscillator and sub oscillators.
Osc Low Cut	Key-tracked low cut setting of the unison oscillator.
Sub Hi Cut	Key-tracked high cut setting of the sub oscillators.
Sub Hi Shelf	High Shelf eq control to dampen or brighten the subs.



Effects and width controls:

These controls only have an effect on the sound of the unison oscillator.

Osc Delay Widening	Enables a delay to the right channel of the unison oscillator.
Osc Delay Amount	Modifies the time of the delay.
Osc Width	Change the width of the osc signal (center knob to mono).
Osc Chorus	Unison oscillator chorus amount.
Osc Flange	Unison oscillator flanger amount.
Osc Room	Unison oscillator room reverb amount.



Mod LFO and effect settings:

Mod LFO Retrigger	Restarts the LFO phase on each key.
Mod LFO Rate	Controls the rate of the LFO.
Pitch LFO	Button to enable the pitch to be controlled by the mod LFO.
Warp LFO	Button to enable the warp to be controlled by the mod LFO.
Filter LFO	Button to enable the filter to be controlled by the mod LFO.
Mod LFO Amount	Controls amount of the mod LFO.
Mod LFO Attack	Controls the attack time of the mod LFO.
Chorus Rate	Controls the rate of the chorus effect.
Flanger Rate	Controls the rate of the flanger effect.
Room Size	Controls the size of the room reverb effect.



Wave sample settings:

Wave Sample Select	Select the wave sample sound.
Sample Level	Controls the sample audio level.
Sample Low Pass	Controls the low pass filtering of the sample.
Sample Start Pos	controls the start position to play the sample.



Main filter settings and curve:

Filter Frequency	Controls the cutoff frequency of the filter.
Osc LP / HP (not sub waves)	Change the unison osc sound to be low pass or high pass
Filter Resonance	Controls the resonance of the filter.
Sub Reso	Enable resonance to effect the sub oscillators.
Filter Env	Controls the amount of the filter envelope.
Filter Keytrack	Keyboard key-tracking of the filter.
Envelopes Curve	Controls the attack and decay curves of all envelopes.



Filter envelope controls:

Filter - Attack / Decay / Sustain / Release / Velocity

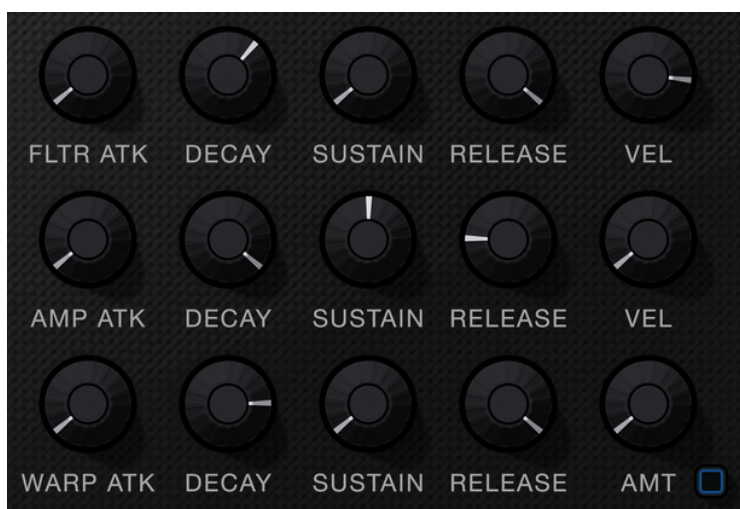
Amp envelope controls:

Amp – Attack / Decay / Sustain / Release / Velocity

Warp & Index envelope settings (switch between warp and index):

Warp & Index - Attack / Decay / Sustain / Release / Amount

Warp / Index Env Button to switch between modifying warp or index.



Sub 2 settings, offset and main glide controls:

Sub 2 Level	Audio output level of the second sub oscillator.
Sub 2 Octave	Octave control for the second sub oscillator.
Sub Filter Offset	Offsets the filter cutoff of the sub oscillators and unison osc.
Distortion Mix	Mix of a distorted output signal of all oscillators.
Glide	Glide amount for the mono modes.



Flipped rack controls:

Transpose

Tune the synth up or down in semitones.

Bend Range

Change the pitch wheel range up to 24 semitones.

CV Inputs:

Note CV

Sequencer input control.

Gate CV

Sequencer input control.

Filter Freq CV

Filter frequency CV input.

Filter Res CV

Filter resonance CV input.

Wave Index CV

Unison oscillator index CV input.

Wave Warp CV

Unison oscillator warp CV input.

