

U-max Evolution sound engine parameters list and description

Section	Parameters	Parameters description
Oscillator 1	OSC 1 Shape & Level	This fader allows smooth volume transition between sawtooth and supersaw / PW / PWM waveforms.
	OSC 1 PW / PWM / Detune	Sets the amount of detune of the supersaw, the depth of PWM or manual PW, depending of the value of switches 1 & 2.
	OSC 1 PW / PWM select	This switch lets you choose between manual pulse width or cyclic pulse width modulation driven by LFO 2, when Pulse is selected with switch 2.
	OSC 1 Supersaw / Pulse select	Selects the waveform when fader 1 is above the mid position.
	OSC 1 Env Freq Amount +/-	Sets the amount of envelope to the pitch. This setting is bipolar. You have no modulation at 64, a positive modulation above 64 and a reversed modulation below 64.
Noise	NOISE Level	This fader sets the level of the white noise source.
Sub Oscillator	SUB Level	This fader sets the level of the sub oscillator. The sub waveform is a square.
	SUB Oct -2	Usually a Sub oscillator is one octave below the main oscillator frequency but with with setting you can set it to 2 octaves below.
Oscillator 2	OSC 2 Frequency	Sets the coarse frequency of OSC 2 from -2 to +2 octave.
	OSC 2 Detune	Sets the fine frequency of OSC 2.
	OSC 2 LFO 2 Sync Amount	This parameter allows to adjust the amount of hard sync controlled by LFO 2.
	OSC 2 / Ringmod Level	This fader sets the volume of OSC2 or Ring Modulation.
	OSC 2 Env Sync	Sets the amount of the envelope to the hardsync offset. This is the way to go for the classic hardsync sound.
	OSC 2 Ringmod ON	This switch allows to choose OSC 2 or Ring Modulation. When Ringmod is selected the core sine wave of oscillator 1 is used.
	OSC 2 Shape	This switch allows to choose between sawtooth or square wave.
Filter	CUTOFF Frequency	Set the cutoff frequency of the filter.
	RESONANCE Amount	Set the amount of resonance or bandwidth depending on the filter you choose. Check the 'Filters' PDF file for more informations on the filters.
	CUTOFF Env Amount +/-	This setting is bipolar, it sets the amount of envelope modulation to the filter. At 64 you have no modulation, a negative modulation below 64 and a positive modulation above 64.
	CUTOFF LFO 2 Mod Amount	Set the amount of modulation from LFO 2 to the filter frequency.
Envelopes	Filter Attack	Sets the time of the attack section of the filter envelope, check the filter frequency and filter envelope depth to hear the effect.
	Filter Decay	Sets the time of the decay section of the filter envelope, check the filter frequency and filter envelope depth to hear the effect.
	Amplitude Attack	Sets the time of the attack section of the amplitude envelope to go from zero to the maximum level when you hit a note (start at note ON).
	Amp & Filter Release	Sets the time of the release section of the amplitude and filter envelopes to go from the actual level to zero when you release a note (start at note OFF).
Others	Filter Ring ON	Sets the modulation coming from the core sine wave of oscillator 2 to the filter frequency.
	Env Impact ON	This parameter allows a slight percussive effect to the attack section of the amplitude envelope. You can only hear this effect when the envelope attack is set to minimum.
	Drive ON	Adds a drive / distorted effect to the sound.
	FX ON	Sets the sound dry or wet.
	Mono / Poly	Sets the keyboard in monophonic or polyphonic mode.
	LFO 1 Frequency	Sets the speed of LFO 1. This LFO is used for vibrato.(Only in the parameter page).
	LFO 2 Frequency	Sets the speed of LFO 2. This LFO is used for PWM, Filter and OSC 2 Hard Sync modulation.(Only in the parameter page).
	PORTAMENTO RATE	Sets the speed of the portamento when a sound is set to monophonic and played legato.(Only in the parameter page).
	PAN	Sets the panoramic of the sound. A value of 64 is the center position.(Only in the parameter page).
	VIBRATO	Sets the amount of modulation from LFO 1 to the pitch. This parameter is controlled by the modwheel.
Effects Section	AUX / Mix Reverb	Sets the amount of reverb.(Only in the parameter page).
	AUX / Reverb Time	Sets the reverb time. You can set the reverb time from short to drastically long value.(Only in the parameter page).
	AUX / Mix Stereo Wide	Sets the amount of the widener effect.(Only in the parameter page).
	INS / Mix Chorus	Sets the amount of chorus.(Only in the parameter page).
	INS / Chorus Rate	Sets the speed of the 3 chorus lines.(Only in the parameter page).
	INS / Chorus Depth	Sets the depth of the chorus effect.(Only in the parameter page).
	INS / Mix Delay	Sets the amount of delay.(Only in the parameter page).
	INS / Delay Feedback	Sets the number of repetitions of the delay lines. This is a stereo delay.(Only in the parameter page).
	INS / Delay Time	Sets the speed of the delay. The delay is tempo synced.(Only in the parameter page).
	Insert FX ON	Sets the whole FX chain (Insert + Auxiliary) ON or OFF.