

Kruudster

VSTI Manual

Kruudster is a hybrid Synthesizer with a lot of modulation capabilities. It has the same drawable low resolution waveforms as the original kruud VSTI.

Features

- 3 Oscillators
- 3 LFOS
- A Randomizer, key triggered or rate controlled.
- 3 ADSRs with Keytracking
- A Filter with 9 different modes, keytracking and filter mix.
- 2 Modulatable Delays of which one can be Tuned for Physical Modelling.
- 1 Arpeggiator
- 1 Step modulator including a key triggered mode.
- PWM for all waveforms
- 2 different Unique Waveform Morphing types
- FM
- 384 Presets

Oscillators

All three oscillators have sine, saw, pulse, triangle and noise waveforms
Oscillator A and B also have drawable low resolution user waveforms and PWM on all waveforms. They can also be morphed together or just mixed together.
Mix means crossfading the amplitude of the two signals.
You can use the mix mode on the AB and AB-C sliders to crossfade between oscillators.
The A-B slider crossfades between Osc A and B while the AB-C parameter crossfades between Oscillator C and Oscillators A + B.

Morph and Meld are time based mixing of the signals.
When the morph slider is in the middle, the resulting waveform contains half a cycle of both oscillators. Moving the slider cuts off the cycle of one waveform replacing it with the cycle of the other. The tuning of each oscillator will affect the resulting waveform as well.

Oscillator A or A and B can be FM modulated by Osc C.
You can modulate the pitches of any oscillator(s) with 2 modulators.
OSC C can bypass the filter and delay with the SUB option.

LFOS

LFO 1 is polyphonic and can use drawable low resolution waveforms. It can also be keytracked. LFO 2 and 3 are global.

All three LFOs can be reset/synced and come with standard VA waveforms including noise. They have 5 different rate modes. Which include a very slow LFO, High FO, Audio Rate Oscillator and Host synced LFO.

All LFO levels and rates can be modulated. Remember that the LFO level slider actually mixes the LFOs default Level with the Modulators level. To set the level of an LFO only with a modulator set the Level Mod slider to top position.

ADSR Envelopes

All ADSRs have adjustable keytracking, which means Attack, Decay and Release times will be faster with higher notes.

ADSR A and B have a start level/volume setting to allow having an attack starting from higher values than zero. On ADSR A you can also select if start level only affects Volume, any other parameter the ADSR is set to modulate or both. On ADSR B you can instead change between a delay option instead of ADSR start level.

ADSR A and B values can also be modulated by velocity and on a ADSR A they can also be randomized.

ADSR A has a Normal and Alternate release mode. The alternate release mode is like a second decay that triggers when a key is released. The length of the second decay is set by the release slider.

Notice that the ADSRs are called EnvA/B/C when selected as Modulator source.

Modulation sources like INVA, INVB or INVC refer to inverted ADSRs. So INVA is inverted ADSR A.

Filters

There are nine different filter modes. The less obvious modes are, DLP - Distorted Low-pass, PLP - Parallel detuned Low pass, FORM - Formant filter and MOOG - Moog LP filter

Warning! Avoid ARO modulation with the FORM filter!

Enabling **DC Fix** removes any DC Offset. It can be useful with high feedback on the delays while using PWM or morphing.

Modulator Sliders

In every section where there are mod (modulator) sliders. They usually modulate the setting of the slider to the left of them.

GUI

Kruudster uses sliders for adjusting values and clickable text for making options. Any text that is blue or grey can usually be clicked on to change or activate a feature. **Grey** text means the feature is **off** or **disabled**. **Blue** means a feature is **in use**.

Installing

Copy the Kruudster.dll to your VST folder.

If you have problems loading it **make sure that you allowed it to extract all its files**. If there is a folder called Kruudster in the same folder as the Kruudster.dll and there are files inside, then the installation should have been successful

License

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Version History

1.3 Osc A & B can use Meld, which is a softer morph mode.

ARO with keytracking on LFO1 can now be used for FM.

Now with 3 banks and a total of 384 presets.

Randomizer Keyboard mode Changes value on long sustained notes.

Global LFOs with simultaneous notes fixed.

some small optimizations and tweaks.

1.21 No more clicks, updated manual, tweaked some presets.

1.2 Removed Some filter modes and added two new. Fixed Legato Mode, Added DC fixer, Added Aftertouch and Mod Wheel as selectable modulator for more parameters. Remade some patches and included an extra patch Bank. Improved FM modes.

1.1 Fixed Legato Mode, Pulse Wave PWM and made other minor tweaks and fixes.

1.0 Initial Release