

Lektro

VSTI Manual

Lektro VSTI is a Phase Distortion Synthesizer with a lot of modulation capabilities.

Features

- 2 Phase distortion Oscillators
- A Waveshaper
- 3 LFOs of which one can be used as a sub Oscillator.
- An LFO waveshaper
- A Randomizer
- 2 ADSRs
- A Tone Controller
- A Filter with 13 different modes
- A Delay.

Oscillators

Phase Distortion Synthesis was pioneered by **Casio** in the 1980's and is based on the idea of distorting the playback phase of a sine wave.

There are 8 different **waveshapes** to choose from, and you can select combinations of two waves.

Lektro has 2 PD oscillators which share the same waveforms but can be individually detuned. LFO3 also has an option to be used as oscillator.

The pitch Modulation Section

Choose what modulator affects what Oscillator. X/Y Pitch modx/y. Z = Pitch ADSR. Modes:
- Share All oscillators, Mod Z on Osc1 only, Mod Z on osc 2 only, XY Split = MODX to OSC1, MODY to OSC2, Z Shared. XYSPL- ZO1/2 = Z to OSC1/2. ALL-OSC1/2 = All Modulators on Osc1 or 2.

Phase Distortion section

Set the amount of distortion, with Zero Volts giving a pure sine wave and 10 Volts giving a fully distorted wave (Wave A and B combined).

Waveshaper

The waveshaper can shape the wave of the 2 PD oscillators. It can be used to shape only one of the oscillators or the sum of both oscillators added together.

LFOs & Randomizers

Lektro has 3 lfos with and a randomizer.

LFO1 and 2 can be sent to a waveshaper.

LFO Modes are. LFO - Low Frequency Osc - HFO - High Freq Osc - ARO - Audio Rate Osc.

LFO3 has additional modes such as, FM = Uses the frequency of played note to modulate.
OSC = Oscillator (Makes sound, not a modulator), NSM = Noise Modulator, NFX = Noise

Oscillator (Makes noise sounds, does not modulate)

Filters

Lektro has 13 different filters. LP, HP and BP filters with 2, 4 or 6 pole modes. BR, combined LP-HP, Moog and a Formant based filter. There is also a Tone controller.

ADSRs

There are two ADSRs available. ADSR A can be linked to volume. It has a slider that can set Initial Level of the Envelope and with the following modes: Vol = Volume only - Mod = Modulators only - All = Volume and Modulators. It also has two different Release Types: *Normal* = Normal ADSR release, *AltRel* = Alternative Release, Makes a pluck sound when released. Pluck Length is adjusted by Release slider.

ADSR B has a slider with two modes. D = Delays the ADSR. IL = Sets Initial level of the ADSR.

You can modulate any Phase (Attack/Decay/Sustain/Release) of both ADSRs.

Delay

The delay has 2 time modes into which the time slider will be limited: *DS* = Tenthths of a seconds and *MS* = milliseconds

Modulation

Most sections of the synth can be modulated with any of the LFOs, ADSRs or the Randomizer. Usually a section can be modulated by two LFOs/Randomizer and only one ADSR. With 3 separate sliders for each. The LFOs/Randomizer can be connected parallel or in series.

Controls

Lektro 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**.

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