## **4CLER** digital videogame sound machine VSTi

www.videogameorchestra.com
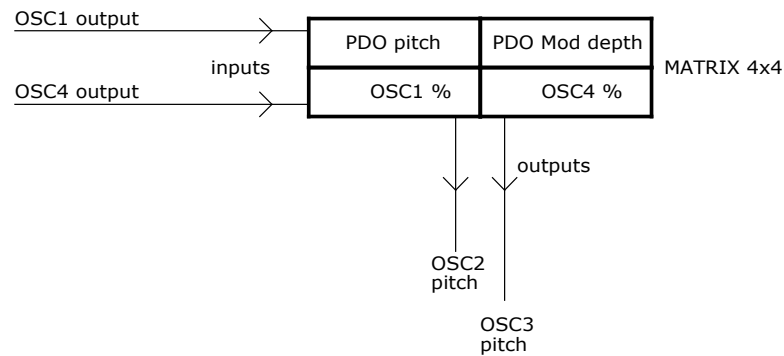www.myspace.com/videogameorchestra
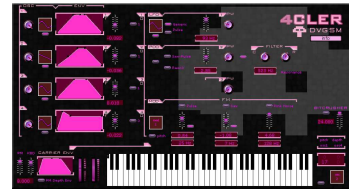
### About

4cler is a synthesizer which can produce a wide range of sounds combining additive and FM synthesis. It can also produce primitive sounds in 8bit style. It runs with VSTi supporting applications. It's the first VGO vst instrument.

### Features

- 4 oscillators [ADSR – 7 waveforms selection]
- [OSC1] – LFO – Pulse width
- [OSC2] – PDO [2 waveforms combined] – Cutoff – Resonance – Pulse width
- [OSC4] – FM Pitch/Phase – 3 Modulators – Phase Modulation ADSR
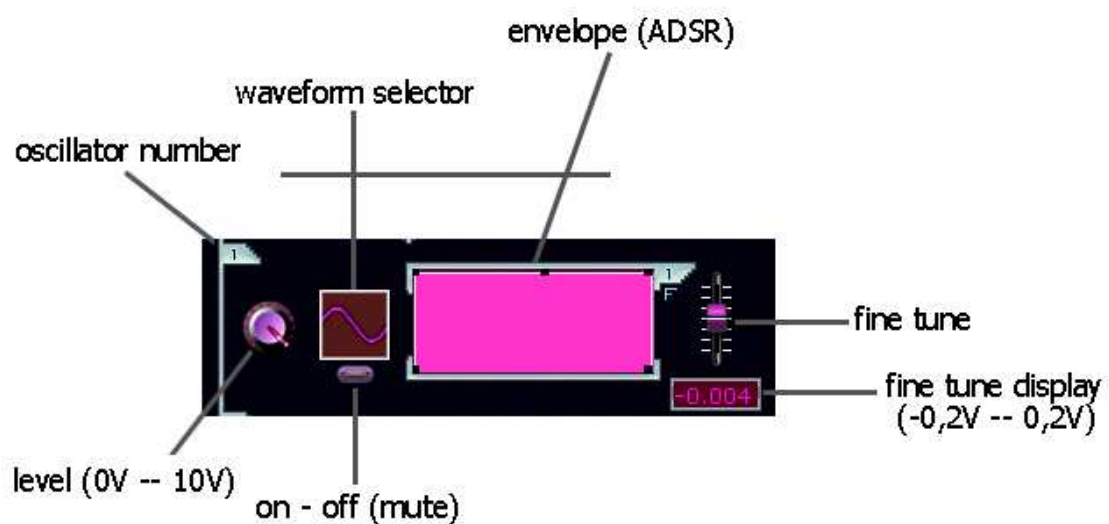- 2x2 matrix
- Bit crusher

### Design
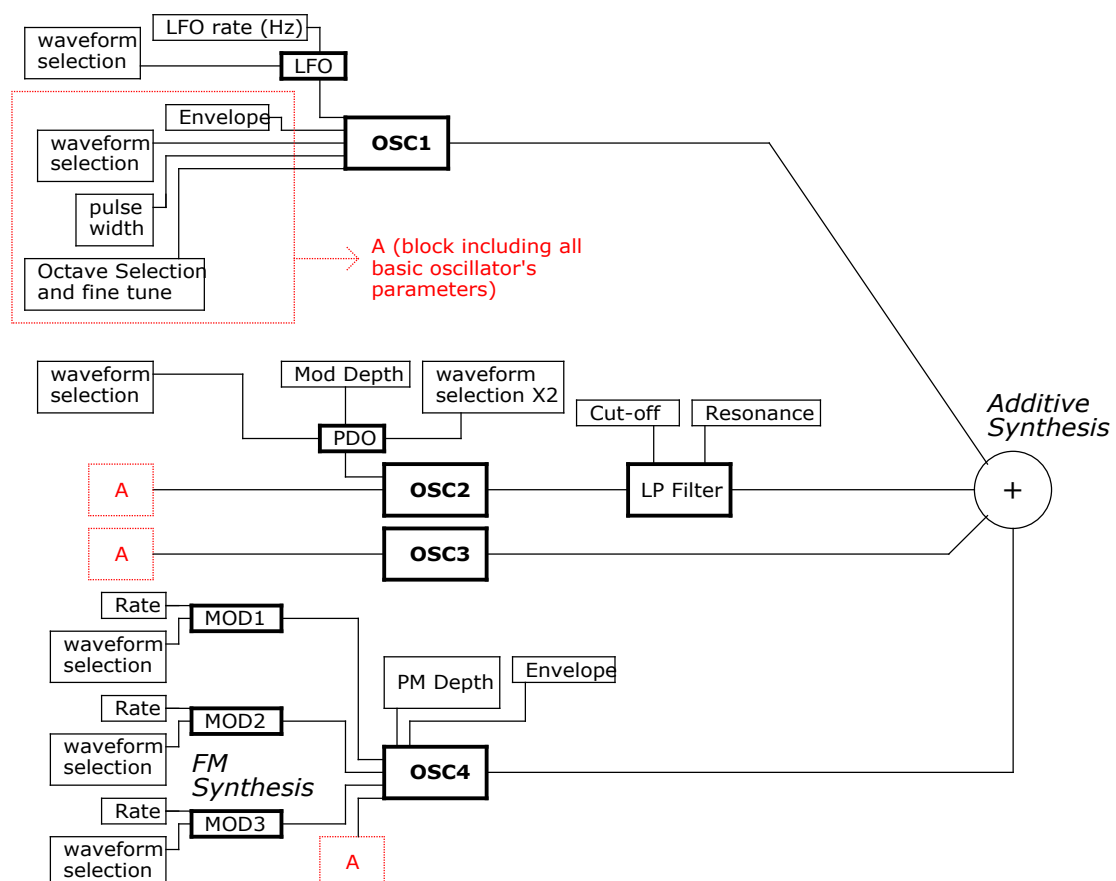
It is possible to try different combinations in order to produce even more complex sounds by changing combinations between the oscillators. The next step is to introduce a parallel connection diagram in which OSC1 and OSC4 affect PDO's pitch and Modulation Depth. In addition to this, an extra selector is used in order to control the percentage of this affection on OSC2 and OSC3. This configuration is controlled via a 2x2 matrix.

| OSC1 output | PDO pitch | PDO Mod depth | |
|---|---|---|---|
| OSC4 output | OSC1 % | OSC4 % | MATRIX 4x4 |

inputs

outputs

OSC2 pitch

OSC3 pitch

## Controls

Basic Parameters

envelope (ADSR)

waveform selector

oscillator number

fine tune

fine tune display
(-0,2V -- 0,2V)

-0.004

level (0V -- 10V)

on - off (mute)

Interface



knob - min left / max right. hold left mouse button and move vertically

waveform selector - hold left mouse button and move horizontally

button , press on / off

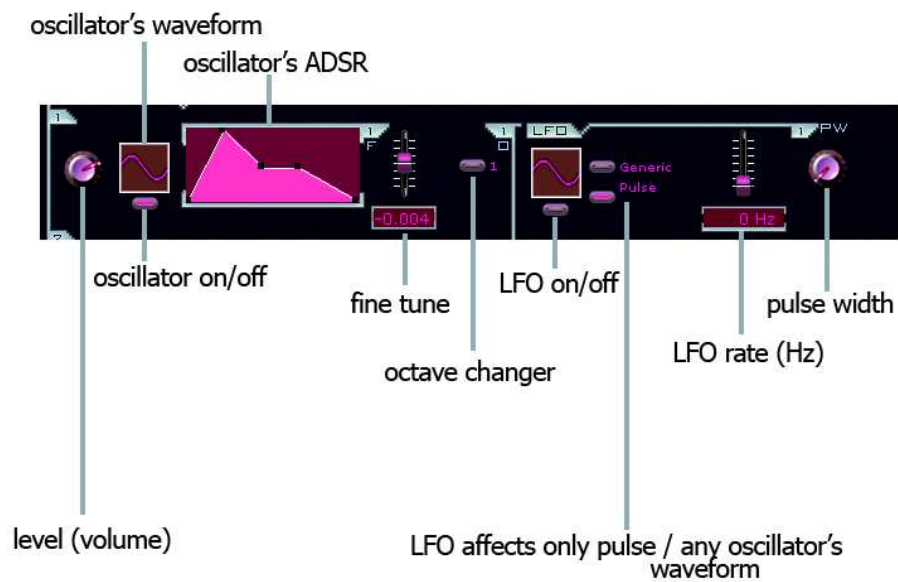ADSR Envelope - hold left mouse button on a breakpoint and move mouse

fader - hold left mouse button and move vertically.

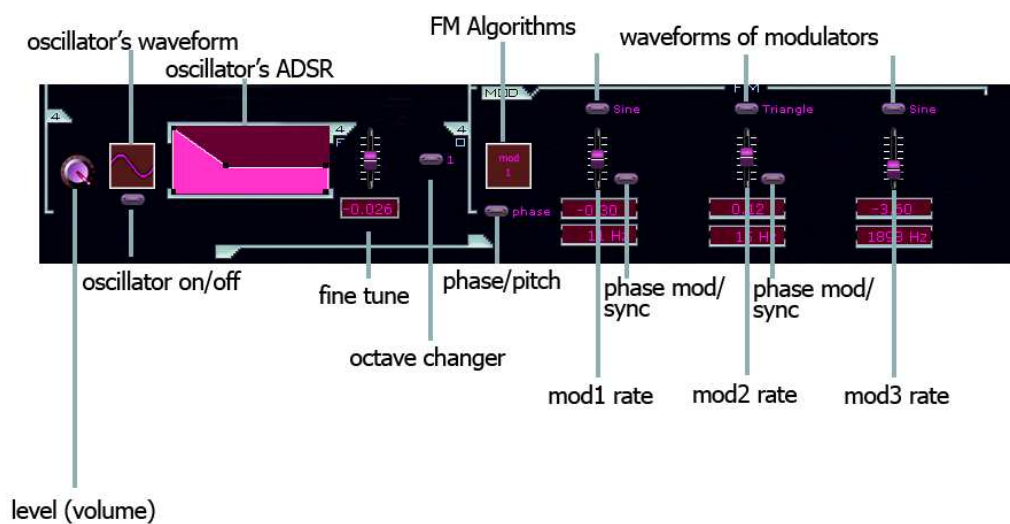matrix - hold left mouse button and move vertically (positive / negative values)

OSC 1



oscillator's waveform

oscillator's ADSR

oscillator on/off

fine tune

LFO on/off

pulse width

octave changer

LFO rate (Hz)

level (volume)

LFO affects only pulse / any oscillator's waveform

OSC 2

oscillator's waveform
oscillator's ADSR
filter on/off
cutoff

oscillator on/off
fine tune
PDO on/off
pulse width
resonance

octave changer
Modulation depth(Hz)

level (volume)
waveforms to produce phase distortion

OSC4

oscillator's waveform
oscillator's ADSR
FM Algorithms
waveforms of modulators

oscillator on/off
fine tune
phase/pitch
phase mod/ sync
phase mod/ sync

octave changer
mod1 rate
mod2 rate
mod3 rate

level (volume)

## Copyrights

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