

X H U N | A U D I O

LittleOne

Analog Modeling Synthesizer

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INTRODUCTION

Overview

Xhun Audio is proud to present LittleOne, a faithful software emulation of one of the most legendary and appreciated hardware analog synthesizers.

In addition to the whole signal path simulation, every single component inside LittleOne (oscillators, filter, envelopes, LFO ...) features the original frequency responses and ranges of the hardware counterpart, producing a deep, rich and warm sound.

Add to the equation a full rack with a 16-step MIDI sequencer, a 16-step trancegate effect and two master effects slots and the result is a complete analogue-sounding instrument - all in the digital domain.

Nobody's Perfect

Perfection is not of this world.

In nature, due to its inherent complexity (and beauty), everything is unpredictable, seemingly - for us - out of control. This makes things so special.

This is true for everything, also for musical instruments.

Based on analog electronics components, an analog synthesizer brings within itself all the imperfections of this technology. This is why its sound is so warm and rich.

LittleOne synthesizer is entirely built on this concept.

Based on casuality (like in the real world), every component inside LittleOne has its independent instability and micro-imperfections. This means that - playing the same note twice - LittleOne will never produce exactly the same sound. As nature teaches.

Together with a high-end DSP technology, this feature brings brilliance, genuineness and depth to the sound.

PRODUCT IMAGES

Section 1



Section 2



FEATURES

- Physical Modeling simulation of real analogue hardware
- An all-in-one complete synthesis setup
- Analogue Components Emulation. Oscillators, Filters, Lfos (,...) simulate the authentic micro-instability and imperfections of the analogue technology. This feature brings richness, genuineness and depth to the sound
- Two aliasing-free Analog Modeled Oscillators featuring continuous selection mode (like the original) between Triangle, Saw, Square, Pulse
- A 4-Pole resonant Low Pass filter modeled on the classic Ladder, featuring the original frequency responses, self-oscillation, authentic soft-clipping and overload control
- Two 4-Stage (ADSR) Envelope Generators with exponential response
- Modulation LFO with the original waveforms and frequency ranges (0.2~500 Hz) including FM possibilities
- Monophonic/polyphonic mode, pitch bend ranges, MIDI Channel selector and much more - all accessible from LittleOne LED display
- 300+ ready-to-use presets covering all styles, from Vintage Analogue to FM, to contemporary cutting-edge Teckno/Trance to Psychoacoustic sounds and SFX. Original Little Phatty¹ patches (Stage Edition and Tribute Edition) are included
- XSQ16M, a build-in 16-step MIDI sequencer
- GATED!, a build-in 16-step Trancegate effect
- Two master effects slots with the possibility to choose between delay, reverb, tube distortion, flanger, chorus
- Full MIDI CC#s mapping (according to the original LP CC#s specs)
- Supported Sample Rates from 44.1 to 192 kHz

PARAMETERS



1. **Glide On/Off switch and LCD display** - provides access for the Operating System parameters (Mode Mono/Poly, P.Bend, Legato On/Off, Velocity->Filter amount, Midi Input Channel,...)
2. **The Modulation section** - features controls to select the modulation Source (LFO Triangle, LFO Square, LFO Sawtooth, LFO Ramp, Filter EG or Oscillator 2,...) the LFO Rate, the modulation Destination (Pitch, Filter, Waveform or Oscillator 2,...) and the modulation Amount parameters. The output of the Modulation section is routed through the Modulation Wheel; when the Mod Wheel is all the way forward the Mod Source passes to the Mod Destination at the level set by the Mod Amount.
3. **The Oscillators section** - features two analog oscillators, each with individual Octave, Level and Waveform controls. Additional controls are provided for tuning the second oscillator relative to the first, setting the Glide Rate, and engaging Oscillator Sync. The oscillators output is routed to the Filter section.
4. **The Filter section** - features the classic 24dB/Octave 'ladder filter', and includes controls for adjusting Cutoff Frequency, Resonance, Keyboard Amount, Envelope Amount, and Overload (clipping). The output of the Filter is routed to the Voltage Controlled Amplifier (VCA).
5. **The Envelope Generator (EG) section** - contains two ADSR envelopes, one for the Filter and one for the Volume. The EG section includes controls for adjusting the Attack, Decay, Sustain and Release parameters of each envelope.
6. **The Output section** - includes controls for adjusting the Master Volume.

COMPATIBILITY

Windows Vista and Windows 7

A few Users reported an issue loading LittleOne VST in Windows Vista and Windows 7.

The majority of these problems were due to a Windows Vista and 7 permissions issue in VST plugins folder.

LittleOne need to 'unpack' his modules into a subdirectory and by default Windows Vista / 7 do not allow saving to your VST Plugins folder.

You can fix this by changing the folder's Permissions:

- Use Windows Explorer to browse to your VST Plugins folder.
- Right-click the folder - 'Properties'
- Choose 'Security' tab.
- Click 'EDIT' (You may need to click a UAC prompt).
- Select username "Users".
- Tick options Allow 'Write' and 'Modify'.
- To finish Select 'OK' to close the two dialog boxes.

Image-Line FLStudio 9

Some Users reported a bad timing (sync) between Fruity Loops Host and LittleOne Sequencer / Trancegate (specially during rendering process).

This can be easily fixed changing the settings in the FL VSTi-wrapper.

In the VSTi-wrapper select :

Adv. Settings [Cogwheel Icon] -> Processing [Tab] -> Opt. -> Use fixed size buffers **[Activate]**

MIDI IMPLEMENTATION

LittleOne MIDI CC#s Assignments List:

Function	CC#
Glide On/Off	65
Lfo Rate	3
Mod Amt	6
Osc1 Oct	76
Osc1 Wave	9
Osc1 Level	15
Glide Rate	5
Sync Osc	77
Osc2 Oct	75
Osc2 Freq	10
Osc2 Wave	11
Osc2 Level	16
Cutoff	74
Resonance	71
Kb Amt	22
Eg Amt	27
Overload	18
Filter Attack	23
Filter Decay	24
Filter Sustain	25
Filter Release	26
Amp Attack	28
Amp Decay	29
Amp Sustain	30
Amp Release	31
Main Volume	7

CREDITS

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Special thanks to Ingo Weidner for the original Little Phatty banks conversion.

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