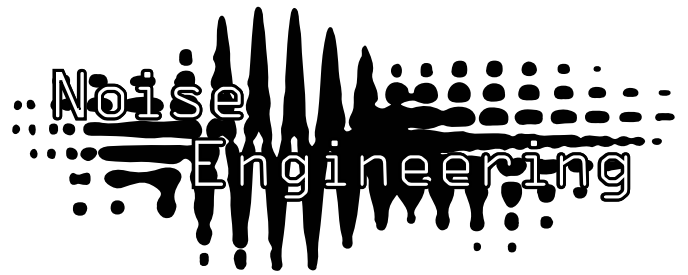


Noise Engineering Manis Iteritas

Gross, gritty, and dark
industrial-strength voice
Rack Extension

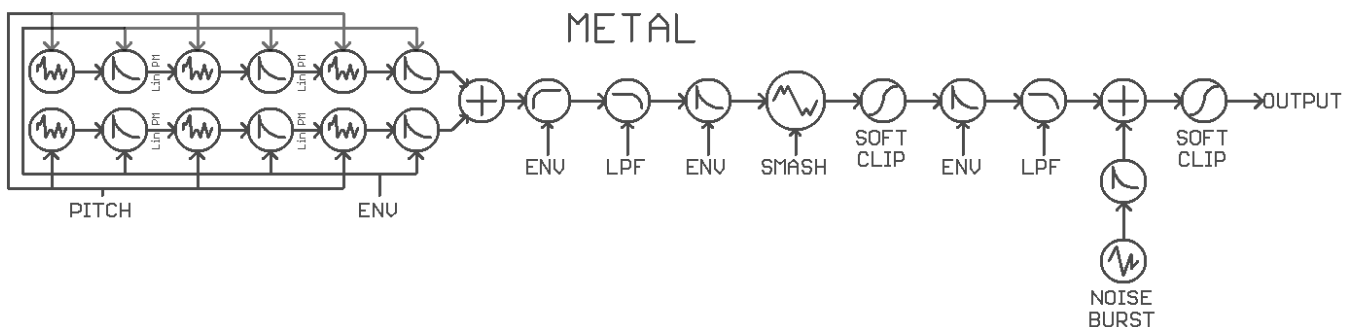
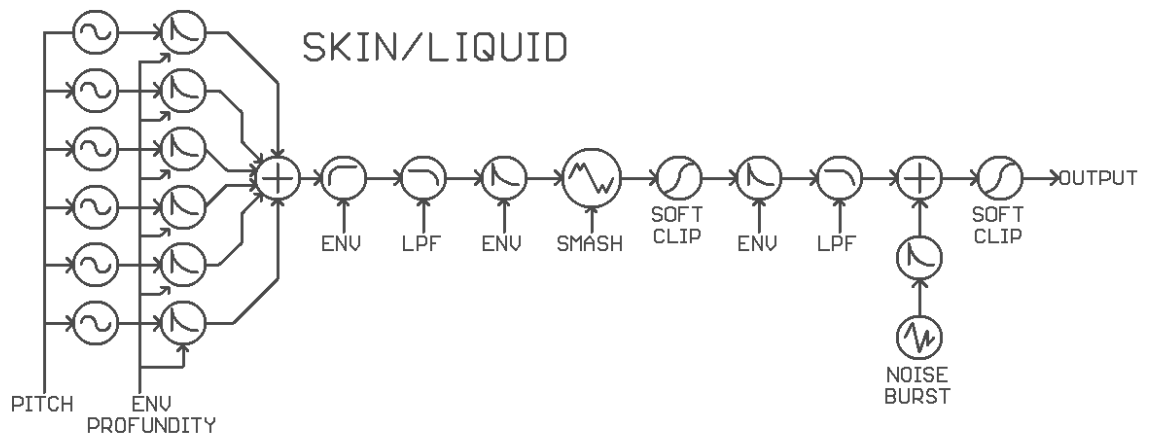


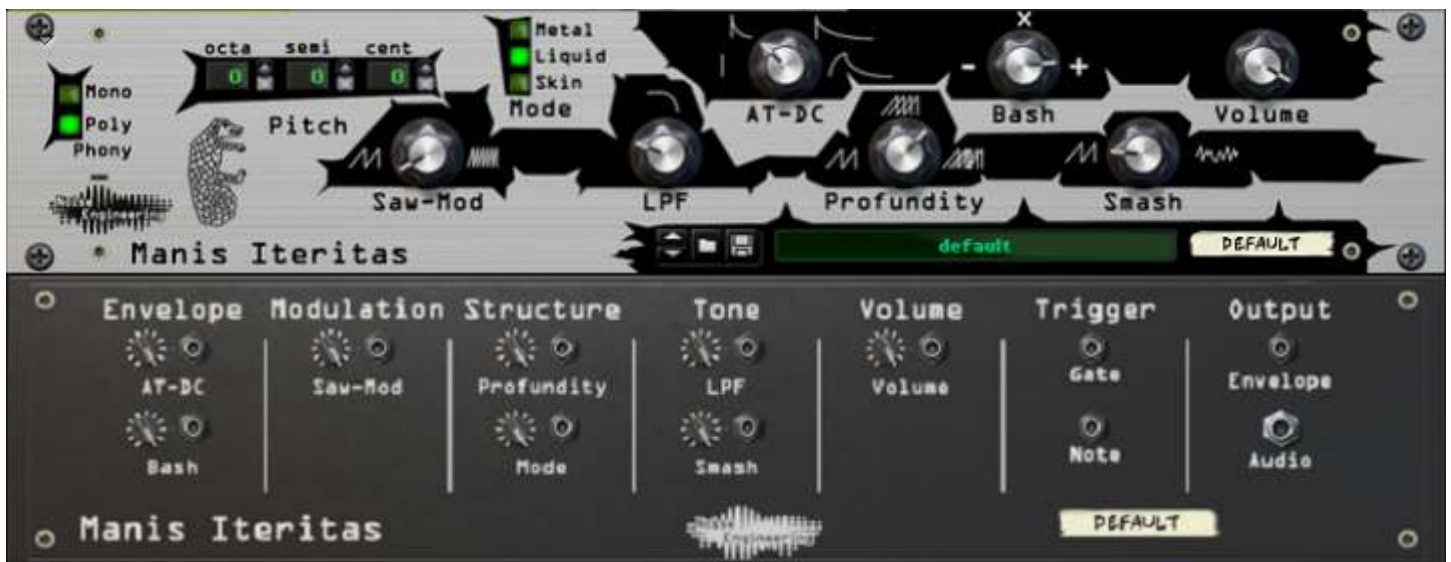
"Tastes like paper." - Portrait X0

Manis Iteritas uses the synthesis of the popular Eurorack hardware voice by Noise Engineering. Manis is based on our Basimilus Iteritas, but designed to be more gritty and dark. At its core are six additive oscillators that are configured in different ways in three different modes. It uses only sawtooth waves that are manipulated, modulated, and distorted through a rethought interface. It can be unapologetically aggressive or surprisingly beautiful. Manis is suitable for leads, bass lines, drums, darkness, detuned madness, or pure mayhem.

Tone Generation

At first glance is very similar to the basimilus. In Skin and Liquid mode there are six oscillator/envelope pairs that are added together. In Metal mode there are phase modulated oscillator/envelope chains. Metal mode differs in Manis Iteritas by having two sets of three sequentially modulated oscillators rather than one set of six. Metal mode also waveshapes the output of the oscillators by summing two sawtooths of the same frequency to give a waveform somewhere between a sawtooth and a square.





Pitch - The pitch selector adjusts the pitch of the fundamental oscillator. Define octave, semitone, and cent.

AT-DC - A simple AD envelope control that shapes the amplitude of the signal. Fully CCW, the signal is a short pop. As the knob is turned CW, the decay increases. At about two o'clock the attack time will increase slightly as well.

Saw Mod - Sounds similar to PWM or sync mod. The operation performed is $\text{frac}((2*s+1)*x)$ where s is the knob+jack and x is the current oscillator amplitude.

LPF - A low-pass filter that tracks pitch; when the knob is fully CCW, only very low frequencies pass through. Turn fully CW to disable. MI uses three 2-pole non-resonant filters in different parts of the signal chain.

Profundity - As the Profundity knob is turned CW, 1. MI adds additional, out-of-phase oscillators for a chorus effect; and 2. MI detunes the voice. Is achieved by randomly modulating the sample rate, which results in the perceived pitch becoming blurry.

Smash - A gnarly wave-folder replacement, Smash is a modulus-function wave destroyer. The knob sets the level of destruction.

Bash - Routes the envelope to Smash, Profundity, and LPF. is knob acts as an attenuverter where 12:00 is off, right of center is positive send, and left of center is a negative send.

Mode: Skin/Liquid/Metal - The mode switch selects between the three modes. Skin is a six-operator additive synth. Liquid is a six-operator additive synth with a pitch envelope. Metal is two 3-operator phase-modulated oscillators. This setting can be controlled by back panel Mode jack.

Volume - knob and back panel input adjust the level of the Rack Extension.

Preset Load/Save - click the folder button to open a preset. Use the arrows to toggle through presets. Use the disk button to save a preset.

Phony - select monophonic or polyphonic sound.



Back Panel Only:

Trigger: Gate - Input to trigger the module

Trigger: Note - CV input to specify note

Output: Envelope - a CV output that tracks the current envelope level

Output: Audio - Monophonic output

Back-panel knobs act as attenuators for all inputs.