Noise Engineering — Basimilus Iteritas Alia

- Manual PDF

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Basimilus Iteritas Alia Cheat Sheet

> **Analog-inspired digital drum/percussion & synth voice. 6 oscillators (additive/FM), extreme wavefolding, morphing waveforms, multi-algorithm, patchable.**

I/O Jack Summary

Jack	Function	Voltage Range	Notes
Trig	Envelope trigger input	> +1.8V threshold	Accepts gates/ triggers
Pitch CV	Oscillator pitch (1V/ octave)	-2V to +5V	Alia version only
Env Out	Envelope output	0V to +5V	Matches internal envelope

Jack	Function	Voltage Range	Notes
Out	Main audio output	14Vpp max	Level depends on patch
Decay CV	Decay control CV input	0 to +5V	Offsets Decay knob
Attack CV	Attack control CV input	0 to +5V	Offsets Attack knob
Morph CV	Waveform morphing CV input	0 to +5V	Offsets Morph knob
Fold CV	Wavefolder threshold CV input	0 to +5V	Offsets Fold knob
Harmonic CV	Harmonic/partials blend/decay CV input	0 to +5V	Offsets Harm knob
Spread CV	Inharmonicity/spacing CV input	0 to +5V	Offsets Spread knob

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Controls Reference

Control	Description
Pitch (Encoder)	Fine (turn) & coarse (press+turn) frequency tuning
Decay	Adjusts decay time for all oscillators; CV offsets this knob
Attack	Left: Adds noise, Center: Analog "pop", Right: Slows attack; CV offsets

Control	Description
Morph	Waveform morphs (sine → tri → saw → square); CV offsets
Fold	Active wavefolder; adds harmonics; top ¼ mixes pulse train; CV offsets
Harmonic	Partial/harmonic decay blend; from single tone → many; CV offsets
Spread	Inharmonicity; spreads partials; CV offsets
S/L/M Switch	Skin (additive), Liquid (additive + pitch env), Metal (FM/phase mod) algo
B/A/T Switch	Bass/Alto/Treble: pitch offset by octaves
Hit Button	Manual trigger for envelope/oscillator hit

Sound Design Shortcuts

- **Kick**: Low Pitch/Bass, Skin or Liquid mode, quick Attack/Decay.
- **Snare**: Higher Pitch, Skin or Liquid, moderate noise via Attack left, Harm for snappier tone.
- **Hat/Cymbal**: High Pitch/Treble, Metal or Liquid for noisier, short Decay, Fold for brightness.
- **Clap**: Middle pitch, Metal mode, rapid Decay, fold for metallic snap.
- **Supersaw/Leads**: Spread and Harmonic for detuning, Morph for waveform blending, tune via Pitch input.

Calibration, Firmware, & Power

- **Autocalibration:** Just power on with nothing patched to Pitch CV for self-cal (Alia only).
- **Firmware Swap:** Connect USB (back header) & use Noise Engineering Portal.
- **Power:** 2x5pin ribbon; +12V (105mA), -12V (10mA); align red stripe to -12V.
- **Pitch Input:** 1V/oct tracking.

Voltage Ranges (Alia)

- Trigger in: > +1.8V
- Pitch CV: -2V to +5V
- All CVs: 0V to +5V (except pitch)
- Envelope Out: 0V to +5V
- Audio Out: up to 14Vpp

Quick Reference – Controls & Jacks

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 [ In: Trig | Pitch CV | Decay CV | Attack CV | Morph CV | Fold CV |
[ Out: Audio | Envelope ]
Controls: Pitch(encoder), Decay, Attack, Morph, Fold, Harmonic, Spr
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