Kaona Instruments — Skippy

- Manual PDF

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Kaona Skippy Eurorack Module Cheat Sheet

Module Overview:
Kaona Skippy is a 4-track polyrhythmic sequencer offering both matrix (step-based) and non-matrix (time-based) sequencing. Each track is independent and poly-temporal, allowing creative rhythms and algorithmic step generation.

Interface Reference

Front Panel Elements: - **4 Color Buttons:**
- Red (Track 1) - Yellow (Track 2) - Green (Track 3) - Blue (Track 4)
Used for selecting tracks for editing.

- **Central Encoder Knob:**
- Rotate: Navigate/select parameter
- Press: Select/function entry/exit
- Long Press: Enter/exit System menu
- Double Click: (in RESET mode) Sync/unsync all tracks

- **Screen:** Shows selected function and track activity.

- **LED Circles:** Show rhythmic activity for each track, color coded.

Inputs & Outputs

Jack	Function	Details / Voltage Ranges
CV OUT 1–4	Sequencer Gates	5V gates, match track color. Duration set by **GATES**
CV CLOCK IN	Clock/Reset input	Gate/Trig, min. 3V for RESET. Supports matrix/poly clocks.
CV CLOCK OUT	Internal clock out	5V logic, clock/tempo depending on CLK settings.

Input Function Modes

- **RESET:** All sequences reset to step 0 on input pulse.
- **POLY:** Follows average external clock, preserves non-metric timing.
- **MATRIX:** Strictly follows external steps (can follow swung/irregular clocks).

Main Functions & Parameters

Function	Description/How-To
BPM	Tempo (10–600 BPM); EXT shown if externally clocked
STEPS	Steps per rotation (1–64); some modes auto-set steps
BEGIN/END	Set arc for pattern; not 0-based; direction-sensitive
GATES	Gate duration; longer gates overlap at high speeds
PROBA	Probability to skip enabled step (0–100%)

Function	Description/How-To
CHAOS	Randomize step timings; disables for strict algorithms
WAY	Set direction: <, >, <>, pause (-). Pause = time stop
SWING	Shuffle alternate steps; not in all algorithms
GAUSS	Logarithmic step distribution; sign sets curve focus
EUCLID	Bjorklund Euclidean gates; x/y pattern (#/total steps)
TILES	Matrix: repeat x on/x off; can break at cycle repeat
POLYR	Alternating tempos (e.g., 4/3); auto-calculates steps
JAZZY	32-step matrix with pre-defined funk/jazz patterns
SPIN	Rotate left/right for matrix/Euclidean functions
PAUSE	Mute any track (blinks); no param editing while muted
RESET	Return all heads to 0; double tap = “sync”

System Functions (Long-Press Encoder)

Function	Description
SAVE	Store 0–64 presets to SD card. Overwrites slot.
LOAD	Recall preset 0–64 from SD card
NEW	Initialize fresh state (clear settings)
CLK IN	Set clock/reset input mode (see above)
CLK	Clock multiply/divide (poly only, not matrix)

LED / Button Behavior

- **Button lit:** Track selected for edit.
- **Button blinking:** Track muted via PAUSE.
- **Screen color:** White = normal/selectable, Violet = parameter editing for selected tracks.

Voltage Reference

- **Gate outputs (CV OUT 1–4):** 0V (off) / 5V (on)
- **Clock input:** 3V minimum trigger/gate
- **Clock output:** 5V logic

Quick Usage Tips

- Select track(s) with color buttons for group/individual editing.
- Use encoder to select and change function/parameter.
- Long-press encoder for save/load/system settings.
- RESET and double-tap for instant recall/re-alignment of all tracks.
- For experimenting, try immobilizing a track with WAY set to "-" (pause).

Technical

- **Width:** 10HP
- **Depth:** 32mm
- **Power:** +5V at 200mA (no current draw on ±12V)
- **SD card:** Internal, for presets only.

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