

Kaona Instruments — Skippy

- [Manual PDF](#)
-

[Download the Skippy Module Manual \(PDF\)](#)

Creating Hyper-Complex, Densely Rhythmic Percussion with Skippy

If you want dense, hyper-complex rhythmic music—think polymeric percussion or intricate, evolving hi-hat/snare/click patterns—the **Kaona Skippy** is an absolutely ideal tool. Here's a detailed workflow, distilled from the manual (Firmware 2.2), for harnessing its power in multirhythmic, polyrhythmic, and algorithmically sophisticated ways.

1. Embrace Polyphony and Color-Coded Tracks

- Each of the **four independent tracks** can have its own rhythm, pattern, and algorithm. Use the colored buttons (Red, Yellow, Green, Blue) to assign different percussion voices (kick, snare, hat, glitch, etc.).
 - Select multiple tracks for group edits, or tweak individually for extreme complexity.
-

2. Matrix AND Non-Matrix Modes = Maximum Pattern Diversity

- **Matrix Mode** (TILES, JAZZY): Steps have a fixed duration and position. Think classic sequencer patterns, but with algorithmic additions.
- **Non-Matrix Mode** (GAUSS, EUCLID, POLYR): Step durations are generated in real time using time-related algorithms, not strictly by metric grid—ideal for odd time signatures and organic density.

You can combine both modes track by track for wild polymeric overlays!

3. Use Polyrhythms (POLYR Function)

- Select POLYR to alternate between two tempos (e.g., 4/3, 5/7, etc.).
 - Skippy recalculates steps so the alternation repeats “in sync” as much as possible.
 - Assign this to one or more tracks and set others to a fixed meter for true polyrhythmic play.
-

4. Leverage the EUCLID Algorithm for Non-Standard Accents

- Skippy’s EUCLID is real-time and not bound by fixed steps—place accents according to **Bjorklund’s algorithm**, generating complex “Euclidean rhythms” natural to global percussion traditions.
 - Use different step counts and fills (e.g., 13 hits over 24 steps vs. 7 over 17) for complex cross-rhythms.
 - You can freely “misalign” step counts across tracks for evolving texture.
-

5. Gaussian and Chaos = Organic Rhythmic "Life"

- **GAUSS** : Distributes hits logarithmically, making some parts of the bar ultra-dense, others sparse—great for tension, evolving grooves.
 - Control concentration at start or end via positive/negative Gauss values.
 - **CHAOS** : Randomly *modulates the time between steps*, adding organic, ever-shifting feel while ensuring underlying synchronization.
-

6. Advanced Steps and Directionality

- Use **odd** or **prime** numbers of steps per track (e.g., 11, 13, 17, 23, 32, etc.) for polymetric cycling.
 - The **WAY** function enables classic forward, reverse, or ping-pong play, and its pause mode is invaluable for performing or for step-programming bursts.
 - You can *rotate* the pattern start (SPIN) for off-beat creativity.
-

7. Probability and Randomization

- **PROBA** introduces melodic density control—randomly drops steps according to probability, yielding glitchy, unpredictable percussion layers.
 - Great for "ghost notes," fills, or humanization.
-

8. Presets, Recall, and Live Play

- Save/recall up to 65 scenes. Performers: make banks for live use!
- Mute parts (PAUSE) for instant dropouts or fills.

- External clock and resets keep Skippy synced to your modular, but **POLY** mode allows for non-metric groove even under external clocks.
-

9. Example Setup for Dense, Complex Percussion

Track assignments: - **Track 1 (Red):** EUCLID 11/16 for main kick - **Track 2 (Yellow):** POLYR 5/7 for snare - **Track 3 (Green):** GAUSS with positive skew for hi-hats - **Track 4 (Blue):** MATRIX TILES with odd steps for percussive clicks

Extra tweaks: - Set **CHAOS** high on hats for shifting off-beats. - Add **SWING** for some human feel. - Use **SPIN** to rotate patterns “off the grid”. - Occasionally hit **RESET** for forced re-synchronization or to realign complex rotations in performance.

10. Further Reading & Modular Expansion

Consider reading the bibliography at the end of the manual for deeper theory (esp. Toussaint's "Geometry of Musical Rhythm").

Links

- [Skippy User Manual \(PDF\)](#)
 - [Generated With Eurorack Processor](#)
-

With these techniques, Skippy becomes a generative rhythmic powerhouse —turning basic pulses into cascades and lattices of complex percussion. Happy patching!