

# Kaona Instruments — Zazou

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- [Manual PDF](#)
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[Zazou Eurorack Module Manual \(PDF\)](#)

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## ZAZOU Cheat Sheet

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*Eurorack Generative Sequencer (Firmware 1.0)*

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## Panel Overview & Controls

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### Encoders

- **Encoder 1:** Menu navigation (short click = enter, long click = special functions)
- **Encoder 2:** Select/adjust algorithms, sequences (short click = select, rotate = change value)
- **Encoder 3:** Fine parameter changes, confirmations (click = confirm/select)

### Buttons (4, color-coded)

- **Track selection (Red, Yellow, Green, Blue)**
- **Base:** Activate/deactivate tracks for parameter edits
- **Algorithms/Sequences:** Manual gate (play note from track)
- **Live:** Mute/unmute each track

### Transport Buttons

- **Play/Stop:** Start/stop note generation (also via CV)

- **Reset:** Restart sequence from beginning (also via CV)
  - **Change:** Advance sequence by one step (also via CV)
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## Input/Output Jacks (with voltages)

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### Inputs (CV)

- **Gate Inputs (x4, color-coded):**
  - *4 Tracks, triggers note generation per channel*
- **Expected:** Standard Eurorack gates/triggers (0V = low,  $\geq 3V$  = high)
- **Play/Stop In:** Gate input to globally start/stop sequences
- **Expected:** Gate/trig,  $\geq 3V$  active
- **Reset In:** Gate input to restart all sequences
- **Expected:** Gate/trig,  $\geq 3V$  active
- **Change In:** Gate input: advance steps
- **Expected:** Gate/trig,  $\geq 3V$  active

### Outputs

- **Gate Outputs (x4):**
  - *One per channel; pulses active when note is sounding*
- **Levels:** Standard Eurorack gate (0V = low, 5V = high)
- **1V/Oct Note Outputs (x4):**
  - *Outputs pitch per note*
- **Range:** 1V/oct (transposable/octave range settable), up to 5V (default) or 8V max (set in config)
- **CV Outputs (x4):**
  - *Outputs note velocity*
- **Range:** 0–5V (or 0–8V, configurable)
- **MIDI Out (TRS-A/B configurable):**
  - *Poly/multitimbral MIDI note & velocity output, up to 4 channels*
- **MIDI Channel:** Assignable per track

## Other Connections

- **SD Card:** For saves, not needed to function but enables manual save/load
  - **Gate Connector:** For dedicated cable link to Skippy (rhythm generator)
  - **USB Port:** *Firmware updates only (never connect with power plugged in!)*
  - **Expander Port:** Reserved for future use, do not connect anything!
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## Main Modes / Menus

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Section	Entry	Functions
Base	Short click Enc 1	Set key/root, scale, global settings, per-track tuning
Algorithms	Short click Enc 2	Choose & parameterize melodic algorithm per track
Sequences	Long click Enc 2	Set chord/note progressions, chain chords, steps
Live	Short click Enc 3	Circle of fifths display, mute/unmute tracks
Files	Long click Enc 3	Save/load presets/tracks/sequences (SD needed)
Configuration	Long click Enc 1	Set MIDI channels, clock/ref BPM, output voltages

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## Quick Reference: Algorithms

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Algorithm	Description/Style
RANDOM	Random notes in scale/chord
ARPEGGIO	Many arpeggio styles & patterns
WALKINGBASS	Basslines (jazz, blues, boogie, etc.)
SERIAL	Serialist (12-tone); chromatic only
CANTOR	Fractal; pattern via recursion
FIBONACCI	Fibo sequence; melodic propagation
INTERVAL	Repeated intervals (set multipliers)
SIERPINSKI	Fractal division/recurrence patterns
MANDELBROT	Complex → simple patterns
JULIA	Fractal, diverging/repetitive notes

*All algorithms have extensive parameters (chord, octave, duration, velocity, ornamentation, etc).*

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## Selections

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### Scales (20+)

Major, Minor, Nat/Harm Melodic minors, Pentatonics, Blues (M/m), Jazz modes (Ionian, Dorian, etc), Chromatic, Bebop, etc.

## Chord Types (selectable per algorithm)

- Major (M), Minor (m), 6, 7, M7, m7, sus, dim, aug, add9, add11, add13, etc.
  - “SCALE” chord: allows access to all notes in selected scale.
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## Other Settings

- **Root Note:** Sets base key per track or globally
  - **Sequences:** Choose progression (II-V-I, Circle of 5ths/4ths, blues 12-bar, etc.) or random/root etc.
  - **Velocity CV Output Voltage Range:** 0–5V or 0–8V (set in Config)
  - **1V/oct Note Output:** Octave and max voltage clamped (5V/8V, configurable)
  - **BPM:** Fixed or measured from PLAY/STOP gate In
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## Tips

- **All settings are per-track or global (when all track buttons active)**
  - **All parameters are auto-saved. SD card enables manual save/load/recall.**
  - **Muting/Unmuting in Live mode is instant via track color button.**
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## Troubleshooting

- **MIDI TRS not working?** Set TRS-A/B switch accordingly (change only while module is off)
  - **Note voltage or velocity too high?** Limit max output to 5V in config
  - **USB use:** *Never connect USB while module is powered!*
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## Voltage Ranges Reference

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Jack	Type	Voltage Range
Gate Inputs	Input (per track)	$\geq 3V$ = trigger
Play/Reset/Change	Input	$\geq 3V$ = trigger
Gate Outputs	Output (per track)	0V or 5V
1V/Oct Output	Output (per track)	0–5V (or 0–8V)
CV Output	Output (per track)	0–5V (or 0–8V)

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## Links

- [Official Manual PDF](#)
- [Generated With Eurorack Processor](#)