

Kaona Instruments – Zazou

- [Manual PDF](#)

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

ZAZOU Cheat Sheet

Eurorack Generative Sequencer (Firmware 1.0)

Panel Overview & Controls

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)

Input/Output Jacks (with voltages)

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!

Main Modes / Menus

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

Quick Reference: Algorithms

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).

Selections

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.

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

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.

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!

Voltage Ranges Reference

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)

Links

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