

Kaona Instruments – Zazou

- [Manual PDF](#)
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[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)
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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!
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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.
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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

| 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](#)