

# Tiptop Audio — Z8000

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• [Manual PDF](#)

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[Z8000 Matrix Sequencer Official Manual \(PDF\)](#)

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## Z8000 Matrix Sequencer "Cheat Sheet"

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The Tiptop Audio Z8000 is a powerful, compact matrix sequencer offering **10 separate sequencer outputs** (eight 4-step and two 16-step). You can clock, reset, and control the direction of each sequencer independently to create complex, polyrhythmic modulation and pitch patterns.

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### FRONT PANEL JACK & CONTROL REFERENCE

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#### Inputs

Input Jack	Function	Voltage Range
CLK (Clock)	Advances sequencer steps	Gate, any Pulse
DIR (Direction)	Sets direction; Low=Forward, High=Backwards	Gate, any logic-level

Input Jack	Function	Voltage Range
RT (Reset)	Resets to step 1 on high	Gate, any logic-level

• **Notes:**

- Each of the 10 sequencers (8x 4-step, 2x 16-step) has individual DIR, RT, and CLK inputs.
- The 4-step sequencers' CLK jacks are **normalized** in groups of four, so one jack can drive up to four rows/ columns unless patched individually. DIR & RT are not normalized.

## Outputs

Output Jack	Function	Voltage Range
CVx	Stepped CV output for each sequencer	0–10V (default), 0–5V (jumper-selectable)

- **8x** 4-step sequencer CV outs (horizontal: 1-4, vertical: A-D)
- **2x** 16-step sequencer CV outs (one aggregates all horizontal, one all vertical)
- **Labeling matches panel graphics**

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## KNOBS & CONTROLS

### Knobs (16 total)

- Set the voltage for each step in the 4×4 grid (steps 1–4, A–D).
  - The active step is indicated by LEDs.
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## LED INDICATORS

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- **Red:** Active step in 4-step sequencers (8 total).
  - **Green:** Active step in 16-step sequencers (2 total).
  - **Yellow:** LED intersection—when a step is active in both a 4-step and 16-step sequence. Increases in brightness if two 4-step sequencers coincide.
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## CV OUT RANGE (JUMPER CONFIGURATION)

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- **Factory Default:** 0–10V on all outputs.
  - **Change to 0–5V:** Remove the corresponding jumper(s) on the rear labeled "CV RANGE" for desired sequencers.
  - **10 jumpers total:** 2 for 16-step, 8 for 4-step sequencers.
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## BASIC USAGE

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1. **Patch CV Out:** Choose a sequencer output (CVx) and connect to your destination (VCO for pitch, VCF for modulation, etc.).
  2. **Patch Clocks:** Send clock signal(s) to CLK input(s). Use normalization for grouped 4-steps, or separate clocks for polyrhythms.
  3. **Set Direction/Reset:** Patch in gates to DIR for forward/backward or to RT for reset-to-step-1.
  4. **Adjust Steps:** Set voltages for each step with the corresponding knob in the matrix grid.
  5. **Monitor LEDs:** Use red/green/yellow LEDs for visual sequence position and overlaps.
  6. **Advanced:** Quantum/quasi-quantized with external quantizer; create polyrhythms by patching multiple clocks; patch CV outs to clock ins for generative rhythms.
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For more patch ideas, consult the [full manual \(PDF\)](#)

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