Frequency Central — Wonderland

- Manual PDF

Wonderland Manual PDF

Wonderland Eurorack Matrix Mixer / Patchbay Cheat Sheet

Overview

- **Type:** 8 x 8 Patchbay/Matrix Mixer/Switcher
- **Features:**
- 8 inputs (with micro-attenuators)
- 8 normal outputs (in-phase; A–H)
- 8 inverted outputs (180° out-of-phase; A–H)
- 64 pushbutton switch matrix (patch any input to any output)
- Passive signal routing (no voltage control)

Jack Reference

Inputs (1–8)

- **Location:** Top row
- **Type:** 3.5mm mono jack
- **Function:** Accepts audio or CV signals (any modular level)
- **Attenuation:** Each has a micro-attenuator (trimpot; screwdriver adjustable, factory set to 50%)

- **Voltage Range:** ±10V typical modular level (no specific limits stated, passive matrix)

Outputs (Per Output Column, A–H)

For each output A–H, there are: - **Normal Output Jack (3.5mm mono):** - In phase with input signal(s) - **Inverted Output Jack (3.5mm mono):** - 180° out of phase with input signal(s) - **Voltage Range:** Follows input voltage (subject to mix summing & attenuation; no amplification or limiting—watch for clipping if summing many signals)

Controls

Buttons (Switch Matrix)

- **Quantity:** 64
- **Type:** Pushbutton (latching, push on/push off)
- **Function:**
- **Press to connect input (row) to output (column)**
    - Example: Pressing the button at row 2, column C connects Input 2 to Output C.
- Multiple switches ON = mix/sum several inputs to same output OR one input to multiple outputs

Micro-Attenuators (Trimpots, Input 1–8)

- **Location:** One per input; accessible via small screwdriver
- **Adjustment:** Set gain/attenuation for each input
- *Note:* If mixing many inputs to one output, reduce gain to prevent clipping.

Cheat Sheet for Use

1. **Patch signals into one or more of the 8 input jacks (top row).**

2. **Adjust micro-attenuators as needed** (screwdriver in each input trimpot, default at 50%).
3. **Press switches at intersections to make connections** from any input to any output (outputs A–H).
4. One input can feed many outputs.
5. Many inputs can be summed to one output (attenuate as needed to avoid distortion).
6. **Patch from either the normal or inverted outputs (A–H columns).**
7. "Normal Out" = in phase
8. "Inverted Out" = 180° out of phase
9. **Monitor and tweak as needed.**
10. Use for audio, CV, trigger/gate signals.
11. No active processing; strictly passive/analog matrix management.

Quick Reference Table

Jack/Control Type	Quantity	Label	Location	Notes/Range
Input Jack	8	1–8	Top row	DC-coupled, modular signal ready
Micro-Attenuator	8	(trimpot)	By inputs	Screwdriver slot, range 0-100%
Normal Out Jack	8	A–H	Side columns	In phase w/ input(s)
Inverted Out Jack	8	A–H	Side columns	180° out of phase
Switch Buttons	64	Matrix	Central grid	Latching, patch routing

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Notes

- **No voltage control, external CV/automation not supported**
- **Passive mixing—no level compensation or normalization**
- **If summing many signals, consider external attenuation** to avoid clipping/distortion

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