Frequency Central — Wonderland

- [Manual PDF](#)

[Wonderland Matrix Mixer/Switcher Manual (PDF)](#)

Creative Uses for the Frequency Central Wonderland in Full-Length Eurorack Compositions

As a Eurorack musician, the **Frequency Central Wonderland matrix mixer/switcher** opens up unique and powerful strategies for moving beyond loops or short patterns, and constructing **dynamic, evolving, full-length pieces**. Here are some methods and patch ideas to help you leverage Wonderland's capabilities for structuring complete tracks:

Module Overview

- **8x8 patchbay/matrix mixer/switcher**
- 8 separate inputs, each with its own micro-attenuator
- Each connection can be individually switched on/off using push buttons
- 8 normal outputs + 8 inverted outputs (signal phase inversion)
- Highly flexible signal routing and layering

Strategies for Full-Length Song Creation

1. Matrix-Based Section Muting & Unmuting

"Instant Arrangement"

- Patch multiple voices (drums, bass, melody, textures, fx, modulation sources, triggers, etc.) to inputs.
- Pre-plan output assignments (e.g., outputs A-C for mixing/drums, D-F for melodic material, G-H for modulation or FX routing).
- Use the push-button switches as **on-the-fly mutes/unmutes** to bring parts in and out—arranging sequences "live" or in real-time takes, similar to a "performance mixer."
- For verse/chorus/bridge construction, predetermine groups of switches to be activated/deactivated—create variations and whole sections this way.

2. Layering and Crossfading Elements

"Crossfader/Layer Mixer"

- Use the matrix to blend several drum/percussion modules to a single output, then crossfade between groups by activating/deactivating buttons.
- Or, sum melodic and textural voices together and control who gets summed to a bus (using the micro-attenuators to balance layers).
- Use the **inverted outputs** to patch to effects for contrasting parallel processing (e.g., normal dry, inverted wet with phaser, etc.).

3. Complex Modulation Routing For Evolution

"Song Macro Control"

- Patch LFOs, envelopes, sequencers, S&H, etc. into Wonderland inputs.

- Dynamically re-route modulation sources to various destinations across the song, using the switches to "move" modulation targets.
- This enables you to bring new modulated textures, filter sweeps, rhythms, etc., into different voices as your piece progresses—instantly updating the vibe for different song sections.

4. Harmonically-Evolving Polyphonic Structures

"Chord and Layer Distribution"

- Patch four voices into inputs 1-4, assign outs A-D to four mixer channels or to four VCA-CV destinations.
- For each song section, change which voices are summed (polyphony, chords, layers, etc.)
- You can also feed pads and drones to some outputs, and sequence lines to others for counterpoint in arrangement.

5. Performative Signal Switching—Generative Form

"Interactive Song Generator"

- Use Wonderland as an improvisational tool: throughout your jam/recording, activate/deactivate routings "on the fly," drastically changing your sound.
- Record these matrix changes as performance gestures (with notes, or even by videoing switch presses), then edit/structure/tweak in post.

Combinatorial Patch Examples

- **With a Sequencer:** Route sequencer CV-outs through Wonderland, and swap destination voices mid-song (e.g. moving a melody line from a lead synth to a filter FM, then to a percussion voice).

- **With Logic/Random Gates:** Use Wonderland to send randomized rhythm gate outputs from a module like Pam's New Workout to different drums at different sections—no repatching needed!
- **With Effects:** Route dry and wet (or, normal/inverted) signals to parallel post-processing, switching between different FX chains per song section.

Practical Tips

- **Micro-attenuators:** Balance multiple summed inputs to avoid clipping—set lower for dense chorus, higher for sparse intro/outro.
- **Planning:** Use a cheat sheet for switch states if your song has predetermined sections; mark these to remember arrangements.
- **Live Improvisation:** Wonderland excels for live sets when you want versatile patch recall and changing textures without cables.

Conclusion

The **Frequency Central Wonderland** is more than just a matrix mixer—it's a powerful song structuring device. By mapping your patch points and using performative switch changes, you can compose, arrange, and perform full-length, evolving modular tracks, unlocking flexibility you'd struggle to achieve with patch cables alone.

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