

Kaona Instruments – Stereo Weaver

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Using Stereoweaver to Create Full-Length Songs in Eurorack

Stereoweaver is a highly creative mono-to-stereo spatial FX module for Eurorack whose unique spatial processing capabilities can transform static or simple patch ideas into dynamic, evolving pieces ideal for full-length tracks. Below, I analyze how to leverage Stereoweaver to overcome common obstacles in evolving modular stereo content, and outline practical patching strategies for song structuring in the modular context.

Key Strengths of Stereoweaver

- **Dynamic Stereo Imaging:** Beyond widening, Stereoweaver introduces movement, micro-delays, phase shifts, and depth.
 - **CV Controllability:** Every main parameter (Depth, Phase, Motion, Haas, Width) can be animated via CV, crucial for continual change.
 - **Psychoacoustic Prowess:** Employs the Haas effect and phase modulation for organic stereo evolution.
 - **Musical Movement:** The Motion control, including a Leslie rotary sim, brings rhythmic modulation to the stereo field.
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Turning Patches Into Songs: Concrete Approaches

1. Evolving a Static Loop

Without Stereoweaver

A repeating melody/beat becomes fatiguing and static.

With Stereoweaver

- **Automate Depth, Motion, and Width via LFOs or Envelopes:** Fade in more pronounced stereo width and phase animation for choruses, drop them back for verses.
- **Manual Performance:** Perform live modulations on the panel to improvise song structure.

Patch Example:

```
Melody/Bass/Drums (Mono Out) → Stereoweaver IN  
Stereoweaver L/R Outs → Mixer → Effects/Output  
LF01 (slow, synced to bars) → Stereoweaver Width CV  
Envelope (from sequencer at section changes) → Depth CV  
Ramp LFO → Phase CV (builds tension over time)
```

2. Creating Sections (Verse/Chorus/Bridge)

- **Sectional Contrast:** Use Stereoweaver to make clear “sections” by drastically altering stereo scene at section boundaries.
 - Verse = Narrow width, subtle motion
 - Chorus = Wide, animated, Haas engaged, more pronounced depth
 - Bridge = Extreme phase movement or fast rotary effect
- **Scene Transitions via CV:** Connect output from a performance sequencer or a manual controller to change Stereoweaver parameters per section.

Patch Example:

Use preset voltages/attenuators or a Voltage Block (Malekko), or even simple sequential switches to send different CVs to Stereoweaver per song section.

3. Filling Out The Arrangement

- **Bring In/Out Elements:** Automated Width can subtly “unmask” new voices or effects when a section changes by shrinking or swelling the image.
- **Cumulative Build:** Start with mono/center-focused sound, use progressive increase in Depth and Motion to “open” the song spatially.

4. Organic Movement Over Time

- **Random/LFO CV:** Use Turing Machine/Marbles/other random CV sources to modulate Width/Phase/Motion at slow rates, ensuring that even one-bar loops evolve and feel alive.
- **Performance Controls:** Use big macro knobs or controllers (Intellijel Tetrapad, Faderbank) to sweep Stereoweaver parameters while playing.

5. Send Effects / Parallel Processing

- **Aux Send:** Place Stereoweaver on an FX send to “stereoize” dry mono elements (like percussion hits or voice snippets) only at chosen song moments (e.g., breakdown or outro).
- **Switchable Placement:** Use a sequential switch (Doepfer A-151 or similar) to route different sources through Stereoweaver in different song sections.

6. Rhythmic or Thematic Emphasis

- **Sync Motion to Master Clock:** Use Clocked LFOs to lock Motion animation to beats or bars, making the stereo effect a coherent structural element.

- **Accentuate Drops or Climax:** Rapidly modulate Haas or Phase for a “slapback” or spatial swirl at key song moments.
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Sample Song Structure with Stereoweaver

Section	Stereoweaver Settings
Intro	Narrow width, low Depth, static Motion (centered, focused presence)
Verse	Modest width, Phase modulated slowly, Haas slight, Motion slow
Chorus	Wide, max Depth, Motion set to rotary, Haas up, pronounced changes
Bridge	Phase sweeps, chaotic Mode, Width automates back to mono
Outro	Gradual "collapsing" of stereo image: Width and Left/Right fades

By mapping section cues to CV automation (manual, scenes, or sequenced), Stereoweaver helps a patch tell a full story—moving beyond loops, creating dramatic transitions, and making repeated materials feel ever-changing.

Integrating with Other Modules

- **Sequencers:** Use CV output from performance sequencers to modulate Stereoweaver per song part.
- **LFO/Function Generators:** Animate parameters for subtle or dramatic effect across your track's timeline.
- **Switches/Muters:** Change processing routing; bring Stereoweaver in/out for dramatic effect.

- **Effects Chain:** Use Stereoweaver before reverb/delay to create vast, shifting clouds; use after distortion for 3D grit.
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Remember:

Song progression in modular is about contrast and movement.

Stereoweaver is ideal for shaping **spatial contrast** over time, making the difference between "patch" and "track".

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