

# Kaona Instruments — Stereo Weaver

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## Stereoweaver Eurorack Module – Cheat Sheet

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### Module Overview

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- **Type:** Mono-to-Stereo Spatial FX
  - **Width:** 10 HP
  - **Depth:** 28 mm
  - **Power:** +12 V: 140 mA, –12 V: 20 mA, +5 V: 0 mA
  - **Function:** Turn mono signals into musically useful stereo images using psychoacoustic tricks, phase, movement, and delays.
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### Front Panel Controls & Jacks Reference

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#### Inputs

- **IN MONO (Jack):** Mono signal input (Eurorack level)
- **CV Inputs (Jacks):**
  - **depth** ( $\pm 5V$ ) — Modulates Depth knob
  - **phase** ( $\pm 5V$ ) — Modulates Phase knob
  - **motion** ( $\pm 5V$ ) — Modulates Motion knob
  - **haas** ( $\pm 5V$ ) — Modulates Haas knob

- **width** ( $\pm 5V$ ) – Modulates Width/Move knob

## Outputs

- **OUT L (Jack)**: Left channel
  - **OUT R (Jack)**: Right channel
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## Knobs and Switches

- **Depth**
  - *Controls*: Amount/Intensity of spatial effects and interactions
  - *Range*: Low = direct, front; High = organic, deep stage; Max = adds micro-chorus/phasing
  - CV: Yes (depth input,  $\pm 5V$ )
- **Phase**
  - *Controls*: Phase relationship ( $0-180^\circ$ ) between L/R
  - *Effect*: Impacts stereo stability, diffusion, and strangeness
  - CV: Yes (phase input,  $\pm 5V$ )
- **Motion (with rotary toggle)**
  - *Controls*: Movement/modulation of stereo image
    - *Slow* = subtle, organic "living" stereo
    - *Fast* = obvious spatial movement
    - *Rotary* = Leslie-style rotating effect
  - CV: Yes (motion input,  $\pm 5V$ )
- **Haas**
  - *Controls*: Inter-channel micro delay (Haas effect)
    - *Moderate* = natural stereo presence
    - *High* = pronounced, characterful effect
  - CV: Yes (haas input,  $\pm 5V$ )
- **Width (with 'move' mode)**

- *Controls*: Stereo field widen/narrow, hollows center; Move introduces dynamic width/panning
  - *Move Position*: Channels crossfade, speed set by Motion, width by Phase. At max: chaotic L/R displacement.
  - CV: Yes (width input,  $\pm 5V$ )
  - **Input Level**
  - *Controls*: Gain for mono in; set to avoid or induce (artificial/coloring) distortion
  - *Clip LED*: Reduces to avoid distortion unless wanted
  - **Left/Right Output Levels**
  - *Controls*: Adjusts L/R levels for precise stereo balance/output matching
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## Typical Use

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1. **Input**: Plug your mono source to IN MONO. Set input gain watching the clip LED.
  2. **Depth/Phase/Motion/Haas/Width**: Adjust creatively for desired stereo effect. Use Motion (rotary) for animated/Leslie-style FX.
  3. **Outputs**: Connect OUT L / OUT R to stereo mixer or further processing.
  4. **CV Control**: Patch modulation sources (LFOs, envelopes, random, etc.) into CV inputs to animate spatial parameters. All CVs respond to  $\pm 5V$ .
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## Manual Voltage Ranges

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- **CV Inputs**: All CV jacks accept  $\pm 5V$ , they sum with the knob position and allow bipolar modulation.
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## Visual Aids

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- *LEDs visualize clipping, motion, Haas effect, and width interaction in real time.*
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## Quick Tips

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- For subtle stereo, use low Depth, moderate Haas, slow Motion.
  - For dramatic FX, crank Depth/Phase, use Motion (Rotary) and Move mode on Width.
  - Animate CVs for ever-changing or rhythmic spatial movement.
  - Deliberate clipping can add harmonics/character.
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