

2hp – Unity

- [Manual PDF](#)
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[Unity Manual PDF](#)

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2hp Unity Mixer – Cheat Sheet

A dual unity-gain mixer for Eurorack, allowing for flexible mixing of both audio and CV signals in three different summing modes.

Controls

#	Label	Type	Function
1	MODE	Toggle	3-position switch to select between Averaging, Unity, or Split mode

Mode Toggle Behavior

- **Averaging Mode (UP):** All inputs = gain of 1/3. Best for mixing audio, preserves relative loudness.
 - **Unity Mode (MIDDLE):** All inputs = gain of 1. Best for mixing control voltages (CV).
 - **Split Mode (DOWN):** Top mixer = gain 1; Bottom mixer = gain 1/3. Mix CV on top, audio on bottom.
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Inputs and Outputs

#	Label	Type	Description & Normalization	Voltage Range
2	Top 3 jacks	IN	Inputs to Mixer 1. Summed and sent to OUT 1. Each jack accepts audio or CV.	±10V CV / Audio typical
3	OUT (top)	OUT	Output of Mixer 1 (top 3 inputs). If patched, Mixer 1 only goes here; if unpatched, also sums to OUT 2.	Up to input sum max
4	Bottom 3 jacks	IN	Inputs to Mixer 2. Summed and sent to OUT 2. Each jack accepts audio or CV.	±10V CV / Audio typical
5	OUT (bottom)	OUT	Output of Mixer 2 (bottom 3 inputs). If OUT 1 unpatched, includes sum of both sections.	Up to input sum max

Quick Reference Operation

- **6-to-1 Mixer:** Leave OUT 1 unpatched; OUT 2 will output sum of all 6 inputs (based on mode).
 - **2x3-to-1 Mixer:** Patch both OUT 1 and OUT 2. Each OUT is the sum of their respective 3 inputs.
 - **Split Mode:** Mix CV with unity gain (top 3 jacks → OUT 1), audio with averaging gain (bottom 3 jacks → OUT 2).
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Power & Specs

- **Width:** 2 HP
- **Depth:** 39.5 mm

- **+12V:** 10mA
- **-12V:** 6mA

Install with red stripe (cable) down for -12V as per standard Eurorack orientation.

Typical Use Cases

- Combine multiple modulation (CV) sources.
 - Mix several audio sources without loss of amplitude (Averaging mode).
 - Run hybrid CV+audio patching (Split mode).
 - Simple, clean, and compact mixing utility.
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