Arcus Audio — Unity Mixer

• [Manual PDF](#)

[Unity Mixer Manual PDF](#)

Unity Mixer (Arcus Audio) – Cheat Sheet

Overview

- **Type**: Dual 3:1 Unity Gain Mixer (Can act as single 6:1)
- **Size**: 2HP (0.4")
- **Function**: Sums up to 3 signals per mix (2 mixes), or 6 into 1 if chained
- **Signals**: Audio or CV
- **Indicators**: Bi-color LEDs per output show level & polarity

Jack Reference

Jack	Type	Description	Voltage Range
IN 1.1–1.3	Input	Inputs to Mixer 1 (DC coupled)	-∞ to +∞ (limited by power rails, typical for Eurorack ~±10V)
OUT 1	Output	Output for Mixer 1 with LED	Follows summed input

Jack	Type	Description	Voltage Range
IN 2.1–2.3	Input	Inputs to Mixer 2 (DC coupled)	-∞ to +∞ (±10V suggested)
OUT 2	Output	Output for Mixer 2 with LED	Follows summed input
> *Note*: To use as 6:1 mixer, patch OUT 1 into an input of mixer 2.			

Controls / Indicators

Control / Indicator	Type	Function
OUT 1 LED	Bi-color LED	Shows level and polarity for OUT 1 (Green = positive, Red = negative voltage)
OUT 2 LED	Bi-color LED	Shows level and polarity for OUT 2 (Green = positive, Red = negative voltage)

No knobs, buttons, switches, or sliders.
All mixing is performed at unity gain (no level controls).

Installation & Specs

- **Mounting**: 2HP width, M3 x 6mm screws included, aluminum faceplate
- **Power**: 10" power cable included
  - +12V: 15 mA

- -12V: 15 mA
- +5V: 0 mA
- **Input Impedance**: 10 kΩ (DC coupled)

Typical Usage

- **Summing audio or CV sources** (e.g. mix 3 VCOs, or sum several LFOs/envelopes into one bus).
- **Dual 3-to-1 Mixer:** Use both sections independently.
- **Single 6-to-1 Mixer:** Chain OUT 1 to an IN of Mixer 2.
- **Polarity/Loudness Indication:** LEDs give instant feedback for troubleshooting or creative applications.

Quick Patching Guide

1. **Patch up to 3 sources** to each group of inputs (IN 1.1–1.3 or IN 2.1–2.3).
2. **Take summed output** from OUT 1 or OUT 2.
3. **Chain modes:** To combine all 6 inputs, patch OUT 1 into any input of mixer 2, take OUT 2 as final sum.
4. **Watch the LEDs:** Green = positive voltages dominate, Red = negative.

No normalization or advanced controls – simple utility for clean, compact summing with visual feedback.