

Intellijel – Unity

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Intellijel Unity Mixer Manual (PDF)

(Assuming the manual reflects the attached content)

Intellijel Unity Mixer Cheat Sheet

Type: Dual 3:1 / 6:1 Unity Gain Mixer

HP: 2hp

Function: Mixes audio or CV signals with no attenuation or amplification (unity gain).

Current Draw: 11mA @ +12V; 14mA @ -12V

Max Output Voltage: $\pm 10.5V$

Panel Overview

Jack	Label (from top to bottom)	Function
1	IN 1	Top mixer input 1 (audio or CV, $\pm 10.5V$ max)
2	IN 2	Top mixer input 2 (audio or CV, $\pm 10.5V$ max)
3	IN 3	Top mixer input 3 (audio or CV, $\pm 10.5V$ max)
4	OUT 4	Top mixer output (sum of IN 1, IN 2, IN 3)
5	IN 5	

Jack	Label (from top to bottom)	Function
		Bottom mixer input 1 (audio or CV, $\pm 10.5V$ max)
6	IN 6	Bottom mixer input 2 (audio or CV, $\pm 10.5V$ max)
7	IN 7	Bottom mixer input 3 (audio or CV, $\pm 10.5V$ max)
8	OUT 8	Bottom mixer output (sum of IN 5, IN 6, IN 7, and—if OUT 4 is unpatched—also the sum from top mixer, for up to 6:1 mixing)

No knobs, buttons, sliders, or toggles are present on this module.

Connection Reference

- **Inputs:** Accept either audio or CV within $\pm 10.5V$ range.
- **Outputs:** Clip at $\pm 10.5V$ if input sum is higher.

Dual Mixer Mode

- [1], [2], [3] → summed to [4]
- [5], [6], [7] → summed to [8]
- Use as two independent 3:1 summing mixers.

6:1 Mixer Mode

- If [4] is unpatched, both sums ($[1]+[2]+[3]+[5]+[6]+[7]$) appear at [8].
- Useful for summing up to 6 audio or CV signals to a single output.

Special Features

Attenuation Jumpers (On Rear PCB)

- Per-mixer -6dB option, set via circuit board jumper.
- Useful for giving extra headroom if using hot signals (e.g. raw VCOs).
- **-6dB attenuates summed output by half.**
- Access by removing the module from case; see manual page 5 for layout.

Usage Tips

- Use for merging CV or audio without needing per-channel level control.
- Works well after/with dedicated attenuators (e.g., Intellijel Triatt/Quadratt).
- If lacking mix headroom, set rear jumper to -6dB for either section.

Quick Reference

- **Inputs/Outputs:** Accepts/buffers both audio and CV, $\pm 10.5V$ max
- **Output headroom:** $+10.5V$ to $-10.5V$ before clip
- **Attenuation:** Optional rear jumper for -6dB per section
- **No local panel controls**

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