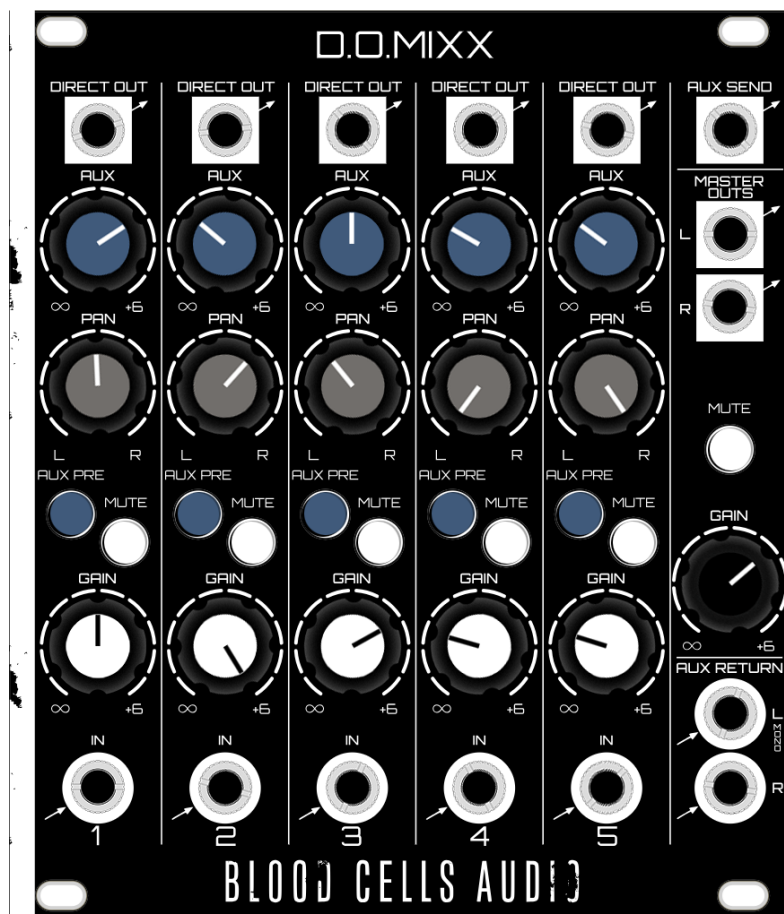


BLOOD CELLS AUDIO

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D.O.MIXX

5-Channel Mono to Stereo Mixer with Direct Outputs
For Eurorack



Compliance



This product is in conformity with the following standards:

EN 55032:2012/AC:2013, EN 55035:2017, EN 61000-3-2:2014, EN 61000-3-3:2013

RoHS2: 2011/65/EU

WEEE: 2012/19/EU

Overview

D.O.MIXX was created based on a couple of simple desires - to not only have a quality in-the-rack mixer as the last thing in the modular signal chain, but to also have an easy means to grab a Direct Output from each channel, so more detailed mixing can take place in a DAW after the fact. These Direct Outs can also be used to route the channel wherever you'd like back into the modular system - a single-channel buffered mult if you will. Beyond that, there are other standard mixer features such as an Aux Bus (with Pre/Post send switch), stereo panning, and click-less muting on each channel. All level knobs range from ∞ to +6 dB of gain.

Direct Outputs are post-gain/mute.

Note this mixer is AC-coupled, and as such is only suitable for audio signals, not CV.

FEATURES:

- Separate Direct Output per channel for further mixing in DAW
- ∞ to +6 dB gain on all level knobs
- Stereo panning and click-less muting
- Mono Aux Send, and Mono or Stereo Aux Return. Sends have Pre/Post option per channel for flexible use as a monitoring system (Pre), or as a typical FX send (Post).
- High quality, low-noise analog signal path (THD+N .005%; 1 kHz @+15 dBu with 0 dB gain)
- Reverse voltage protection (in addition to shrouded header)
- Include power cable and 4 mounting screws

Installation

This module takes up 22HP of space.

Dealing with Power: First calculate how much total current your eurorack setup is consuming from the supply's +12V rail, as well as the -12V rail (Modular Grid is a great resource for this). Add the current consumption of this module's +/- 12V rails (find this in specs below) to those numbers...as long as you're below the current capacity of each of the supply rails, you're golden. If not - don't plug this in yet, as either a beefier supply is needed, or some modules will need to be unplugged to accommodate.

Plugging it in: Turn off your power supply, then plug the 16-pin side of the included ribbon cable into an available power header. The red stripe must be on the -12V side of the supply's header. **When in doubt, check the documentation of your supply.** Connect the ribbon cable to the D.O.MIXX's power header on the rear. The position of the -12V red stripe is clearly labeled - in fact there's no way to get that backwards since the header is keyed (unless you defeat it by clipping something off, in which case the built-in reverse voltage protection should save you - but why press your luck, right?).

D.O.MIXX Anatomy



1. **Direct Outputs:** Unbalanced, Post-Gain and Post-Mute. Typically run straight into an audio interface for recording of individual channels - great for remixing later in a DAW. Also of course can be creatively used to route signals back into the modular system - basically a single buffered mult.
2. **Aux Level:** Infinite to +6dB. Amount of signal sent from each channel to the Aux Send output.
3. **Pan:** The amount of signal sent to the Left or Right of the Master Outputs. 12 o'clock sends equal level to both sides of the Master Outs.

4. **Aux Pre:** When the button is ON, the channel is sent to the Aux bus *Pre Fader/Mute* - this is useful as a monitoring system for your headphones, or as a way to cue up a sound without it coming out the Main Mix yet. When the button is OFF, the channel is sent to the Aux bus *Post Fader/Mute*...this is typically used when sending to Outboard FX.
5. **Mute:** Kills off the channel's signal. Nice and clickless.
6. **Input Level:** Infinite to +6 dB.
7. **Audio Inputs:** Unbalanced, takes modular signals in.
8. **Aux Send:** A mono unbalanced output, typically wired to outboard FX (e.g. reverb or delay...but sky's the limit) or to a monitoring system for cue mix.
9. **Master Outputs:** An unbalanced stereo pair, this is the final result of your mix. Run it to your DAW for recording, to a stereo DI to go out to the house, etc. If you happen to be using this module as a mono mixer, just wire to either L or R, and be sure to adjust the pan of each channel accordingly.
10. **Master Mute:** Kills off audio front the Master Outputs. Note that the Direct Out's and Aux Send will still function.
11. **Master Gain:** Infinite to +6 dB. This adjusts the level of both Left and Right outputs simultaneously.
12. **Aux Return:** An unbalanced stereo pair for bringing the outputs of your outboard FX back into the main mix. Again, typically reverb or delay. If the outboard FX only has a mono output, just wire this to the Left Aux Return Input. This will internally route that mono signal to both Left and Right Outputs equally..

Technical Specs

Width	22HP
Depth	3.3 cm
Power	170 mA @ 12V 170 mA @ -12V
Input / Aux Send Gain	∞ to +6 dB
Output Gain	∞ to +6 dB
Inputs/Outputs	All I/O is unbalanced
THD + Noise	.005%; 1 kHz @+15 dBu with 0 dB gain
Dynamic Range	>107 dB, A-weighted
Input Impedance	100K ohms
Output Impedance	300 ohms