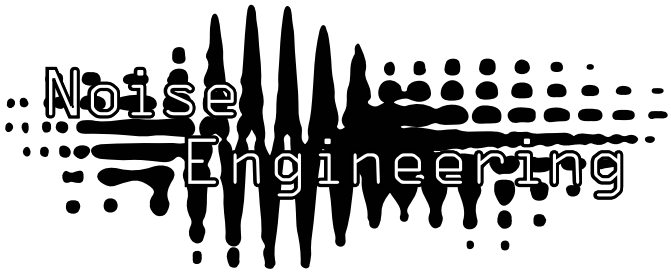
Noise Engineering
Roti Pola
Small attenuverting CV mixer



Overview

Type	Attenuverter/Mixer
Size	4HP Eurorack
Depth	.8 Inches
Power	2x5 Eurorack
+12 mA	58
-12 mA	40

Roti Pola is a four channel attenuverting CV mixer and offset with visual feedback in a small package. With nothing patched to channel 1, a 5v offset is applied to the mix, useful for controlling other parameters or modifying CV signals.

Etymology

Roti -- from Latin: “spinny/whirly”
Pola -- from Latin: “tiny”

“Tiny Whirlification”

Input & output voltages

Roti Pola is rated for voltages between ±10v.

Patch Tutorial

Patch an LFO into channel 2. Patch the output to a CV input in your system. Use channel 2's attenuverter to modify the signal, and observe the LED feedback given by channel 2's indicator and the mix out LED. Next, play with channel 1's attenuator to add an offset and see how your LFO signal is modified. Patch more CV sources into channels 3 and 4 to create more interesting and chaotic modulation.

Interface

Channel knobs 1-4: Attenuverters; with nothing patched into its input, channel 1 is normaled to a 5v offset. Corresponding channel LEDs show the signal post attenuversion being sent to the mixer. Green indicates a positive signal, red indicates a negative signal.

Inputs 1-4: Input your CV here for mixing and attenuverting.

Output: Final mix output. LED shows outgoing CV, with green indicating a positive signal and red indicating a negative signal.

Design Notes

A while back, our friend Baseck called us up and said, "Guys! You have to come see this!" He had patched up this incredible bit with the Cursus Iteritas and a load of other stuff -- and it became clear that we needed, among other things, a CV mixer. We brainstormed the schematics for things to fit into a setup similar to what he was doing, but with our own character. The first version of RP one was workable but once we had it in hand, we realized adding the 5V supply to channel 1 would make it so much more useful. The desire for that add-on led us to a revision that allowed us to fix a few wacky layout issues on the first one and we had a product.

Special Thanks

Baseck