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TRIPLE CAP CHAOS

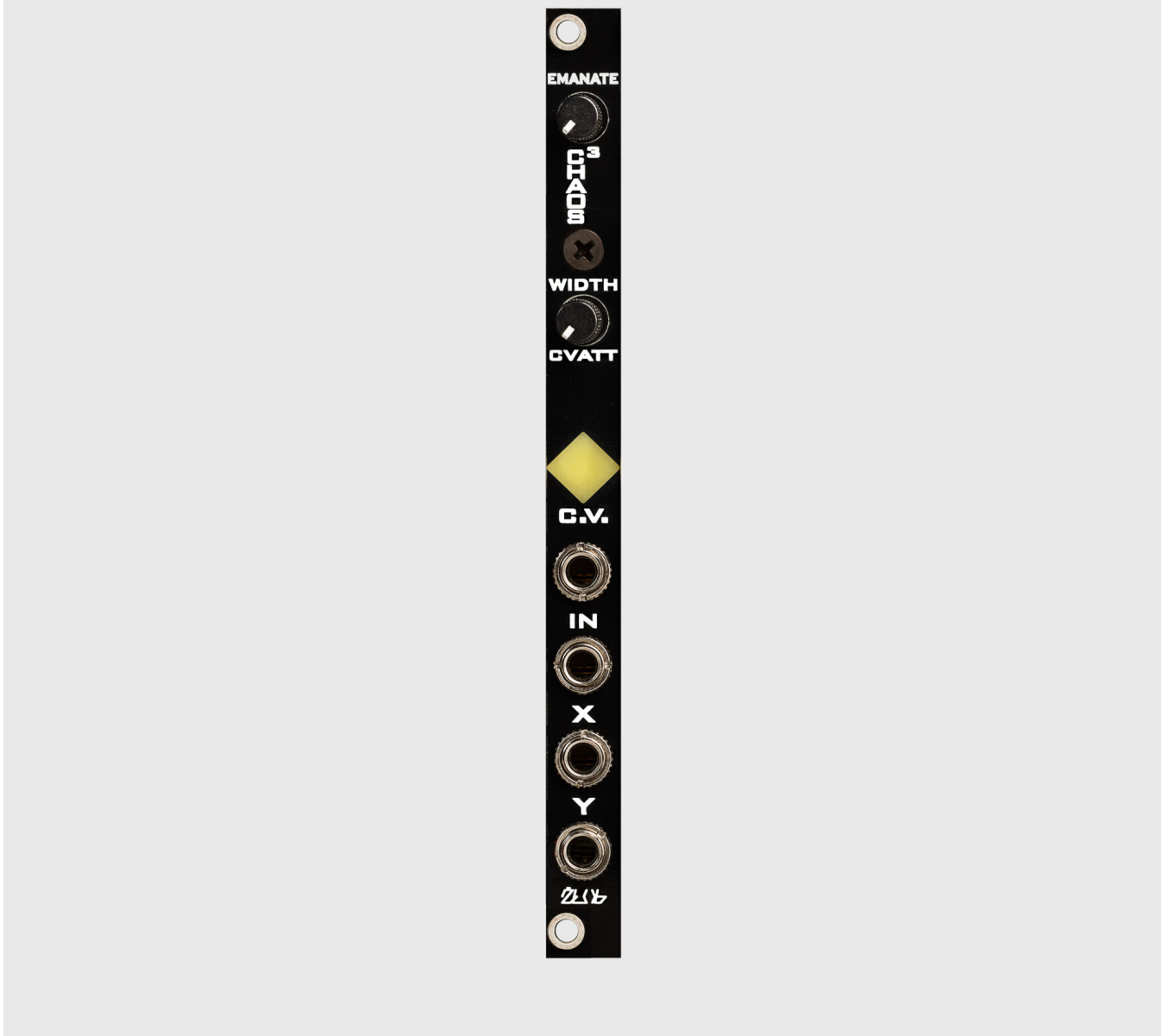
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CHAOTIC OSCILLATOR AND AUDIO MANGLER

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13 PATCHES FOR THE TRIPLE CAP CHAOS BY J.SOLIDAY

13 Patches for the Triple Cap Chaos by J.Soliday



The Triple Cap Chaos(C^3 Chaos) is a 2hp analog, chaos based, noise oscillator, pseudo ring modulator/harmonics generator, and audio mangler Eurorack module available as a DIY Eurorack kit, PCB and Panel, or built.

It is a unique module, like the Diode Chaos, because it has never existed as a musical instrument until now. There is also no other module to my knowledge that can do exactly what the Triple Cap can do. The circuit(with several modifications) is based on the paper "Simple Autonomous Chaotic Circuits" by J.C. Sprott and Jessica R. Piper. As opposed to the Diode Chaos that generates control voltage this module focuses on the audio rate.

The "Emanate" potentiometer controls the coarser overall spectrum of the chaos, from lots of activity counter clock wise up to less chaos and more of a steady oscillation. The "Width, CV ATT" potentiometer can be thought of as more of a fine control for the chaos/oscillator. When something is inserted into the "CV" in the voltage normalization from the width knob is broken and the potentiometer now acts as an attenuator for the incoming cv. The Triple Cap is not a traditional volt per octave exponential VCO, and has a sort of narrow frequency range to exploit the chaotic behavior.

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interact with the onboard chaotic oscillator depending on the frequency of the input, which may take some experimentation. It can create ring mod ish sounds, to added harmonics, to almost bit crushed sounds depending on the "X" or "Y" output. The "X" output is a more windy noisy sinusoidal based output and the "Y" output is more squared off and aggressive, harsher sounding output.

Some quirks about the Triple Cap: The "X" output can offset negatively or positively a little bit depending on the pot settings, but both outputs tend to stay around 10vpp. With the "Emanate" and "Width" pots all the way up the typical frequency will be around 150hz although some will reach 200hz at this setting. With the "Emanate" pot full counter clock wise "Width" pot full clock wise the frequency will be around 250hz. It is possible to send signals into the triple cap that can bring it out of the desired range causing the oscillation to cut out.

The Triple Cap has a double sided panel. meaning one side has the classic graphics and the other is Soulless with less graphics(see image gallery to the left).

- Width: 2hp
- Panel Material: PCB/Double Sided
- Reverse Power Protected
- Current Consumption: +12v: 15mA, -12v: 10mA
- Depth: 37 mm or 1.46"
- Ships with M3 black nylon screws
- Expandable: no

the triple cap diy workshop at knobcon is sold out.

there might be kits left in person on sunday.

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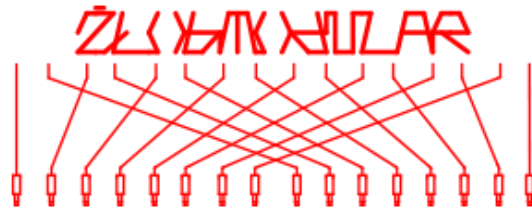
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