

Ø ANTUMBRA

PATH

MANUAL

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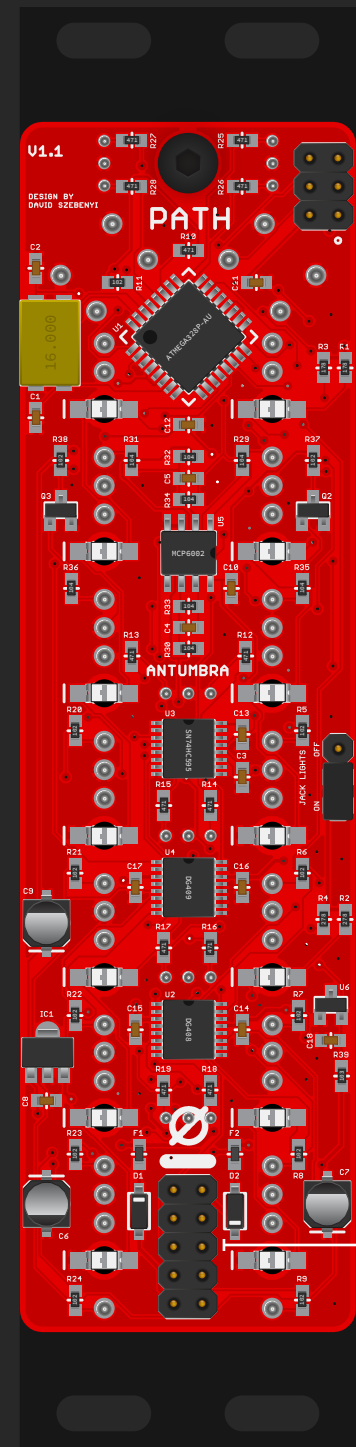
00. THANK YOU!

Thank you for purchasing the Antumbra PATH module!
In this documentation you can find information about the
installation and use of the module.

01. INSTALLATION

When you turn the PATH around, you should see the module as it is on the left illustration. Connect your power header to the 10 pin connector on the bottom. Pay attention to the orientation of the cable, the **RED STRIPE** should be on the top (next to the white marking)!

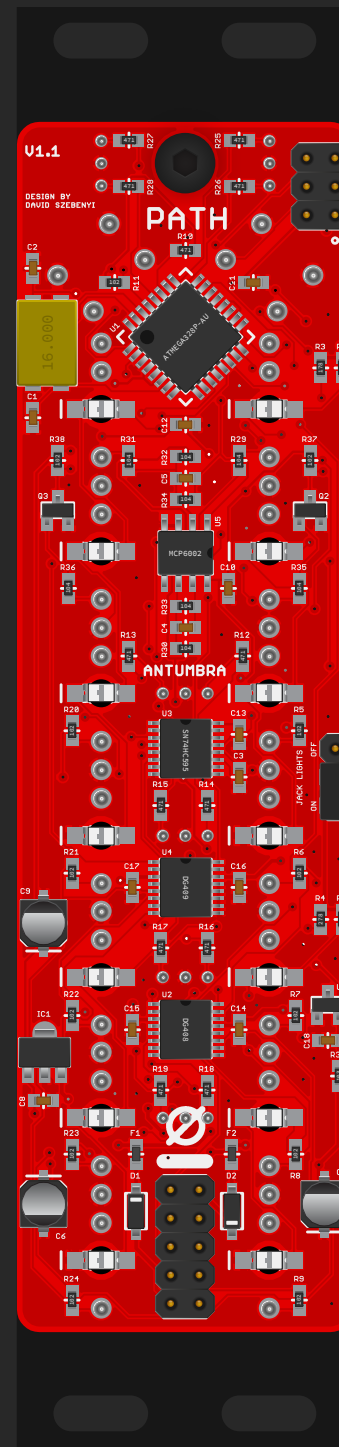
By doing otherwise you can potentially harm the module or even your whole system! Power off your Eurorack system and connect the other end of the cable to the power source, here also pay attention to the PSU manufacturers instructions!



POWER HEADER

02. BACK

With the three pin header you can turn on or off the jack lights. Top position is off, bottom is on. Turning on the jack lights draw about **75mA** more from the +12V rail.



JACK LIGHTS SWITCH

03. FRONT

CH1 LED

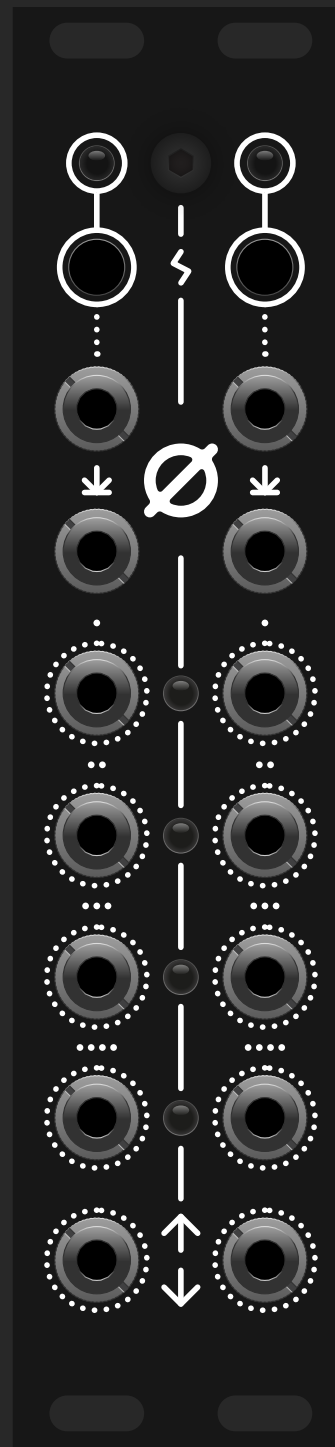
CH1 BUTTON

CH1 CV/TRIG INPUT

CH1 RESET INPUT

CH1 INS/OUTS

CH1 COM IN/OUTPUT
(NORMALIZED TO 5V)



CH2 LED

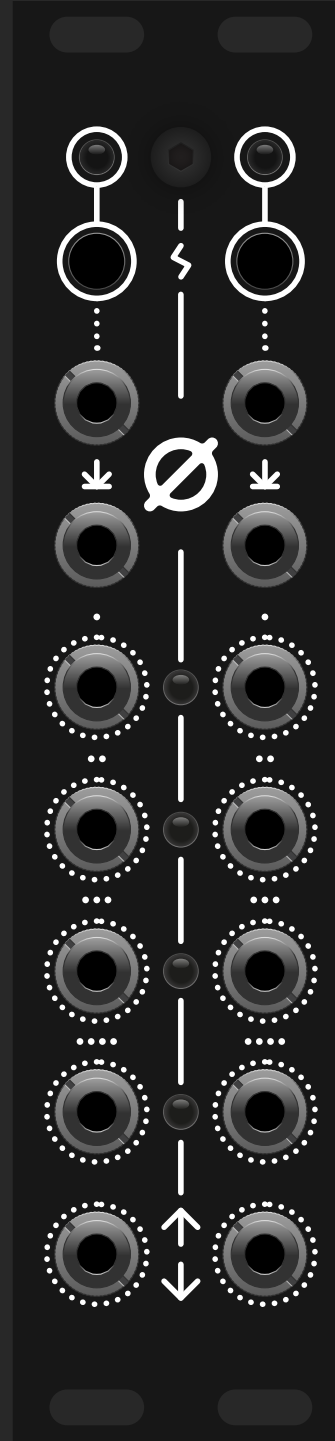
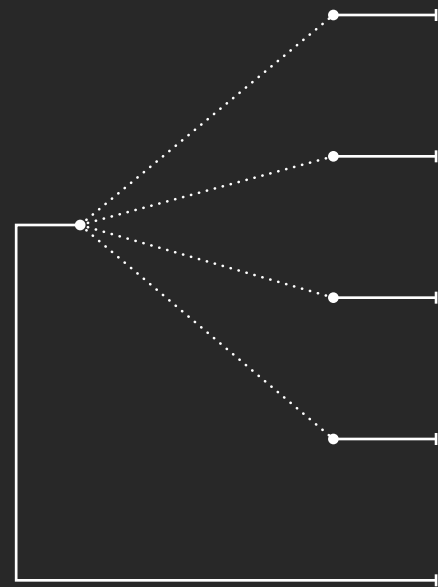
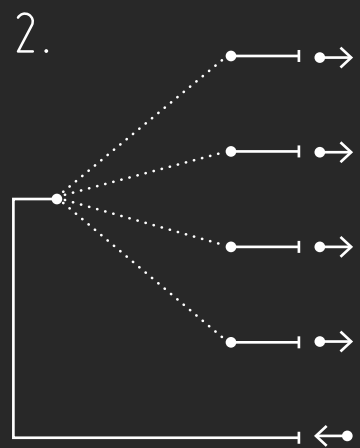
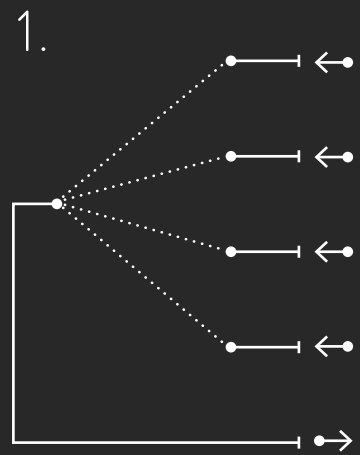
CH2 BUTTON

CH2 CV/TRIG INPUT

CH2 RESET INPUT

CH 2 INS/OUTS

CH2 COM IN/OUTPUT
(NORMALIZED TO 5V)



04. USE

PATH consists of two 4:1 switches or one 8:1 switch.

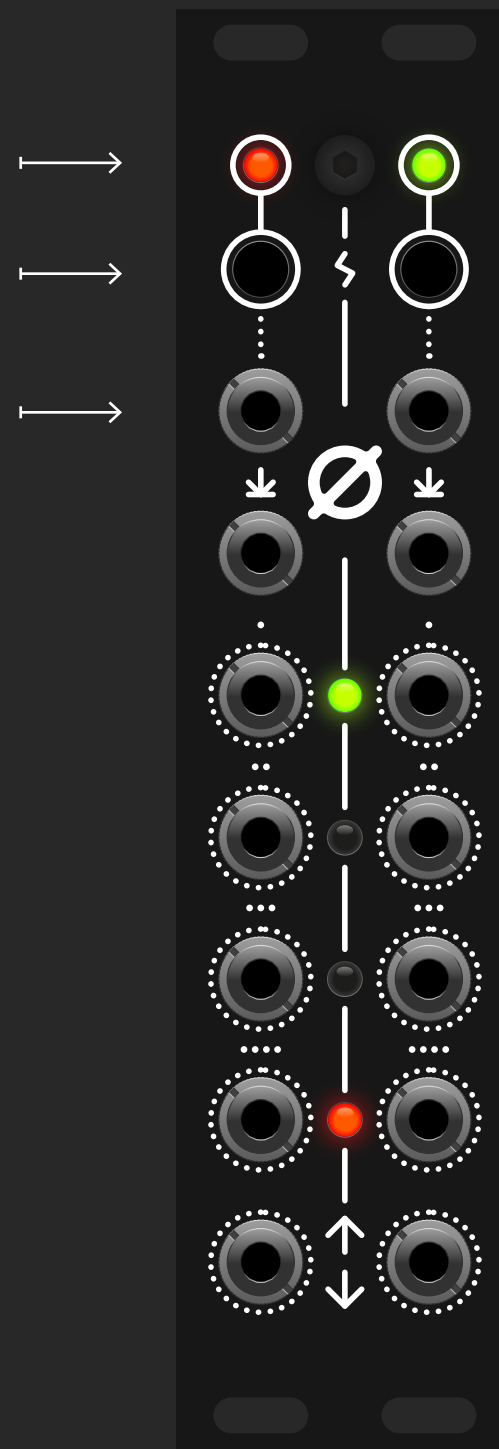
You can use it in two ways regarding the switching:

1. Insert signals in the 4 I/O jacks and switch between them so that the selected signal comes out on the bottom I/O jack.
2. Insert a signal in the bottom I/O jack and you can route the signal to different inputs via the four I/O jacks.

The currently selected I/O is indicated by the LED next to it RED for CH1 and GREEN for CH2.

5V is normalized to the COM I/O jacks so that when there's no jack inserted, the I/Os can be used as gates

05. CV/TRIGGER INPUT



Pressing the channel button switches between CV/trigger input modes.

When the channel LEDs are unlit it means that the channel CV/trigger input expects triggers. On the rising edge of a trigger it'll step to the next I/O channel.

When the channel LED is solidly lit, it means the channel CV/trigger input expects CV between 0-5V.

05. CV/TRIGGER INPUT

CV is split between the available steps set in the sequence length page, meaning that if there are 4 steps available, the CV will change channel every $5/4=1.25V$.

	8 STEPS	7 STEPS	6 STEPS	5 STEPS	4 STEPS	3 STEPS	2 STEPS
I/O 1	0-0.62V	0-0.71V	0-0.83V	0-1V	0-1.25V	0-1.66V	0-2.5V
I/O 2	0.62-1.25V	0.71-1.42V	0.83-1.66V	1-2V	1.25-2.5V	1.66-3.33V	2.5-5V
I/O 3	1.25-1.87V	1.42-2.14V	1.66-2.5V	2-3V	2.5-3.75V	3.33-5V	
I/O 4	1.87-2.5V	2.14-2.85V	2.5-3.33V	3-4V	3.75-5V		
I/O 5	2.5-3.12V	2.85-3.57V	3.33-4.16V	4-5V			
I/O 6	3.12-3.75V	3.57-4.28V	4.16-5V				
I/O 7	3.75-4.37V	4.28-5V					
I/O 8	4.37-5V						

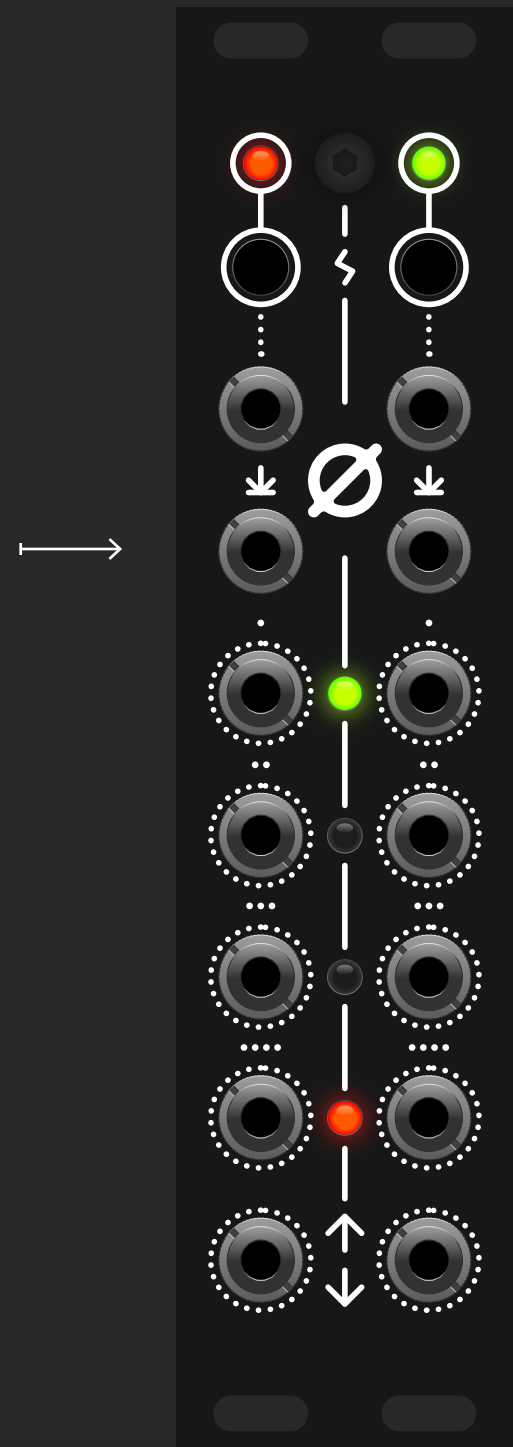
06. RESET INPUT

Trigger mode:

On the rising edge of a trigger in the reset input the sequence goes back to step one.

CV mode:

On the rising edge of a gate in the reset input the current CV is held on the value it currently is.

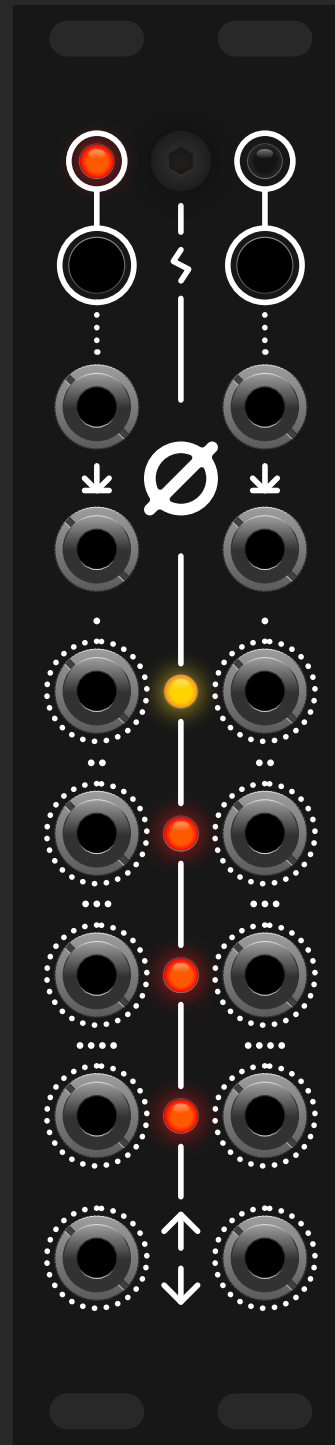


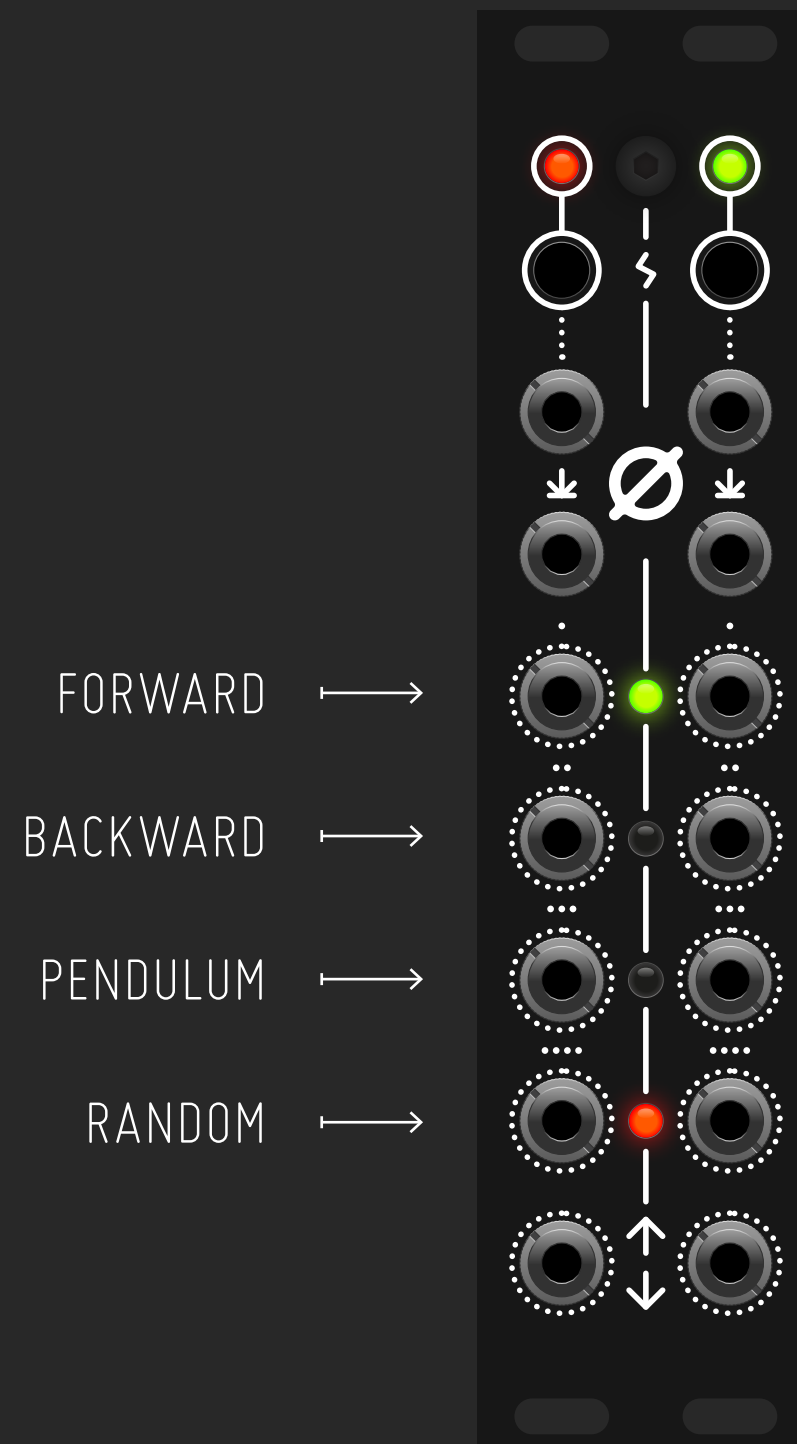
07. SEQUENCE LENGTH

Hold the channel button until it starts blinking.

The available steps are lit by the channel color. Pressing the button repeatedly cycles through 2-4 steps or in chain mode 5-8 steps.

Long press the channel button again to exit this mode.





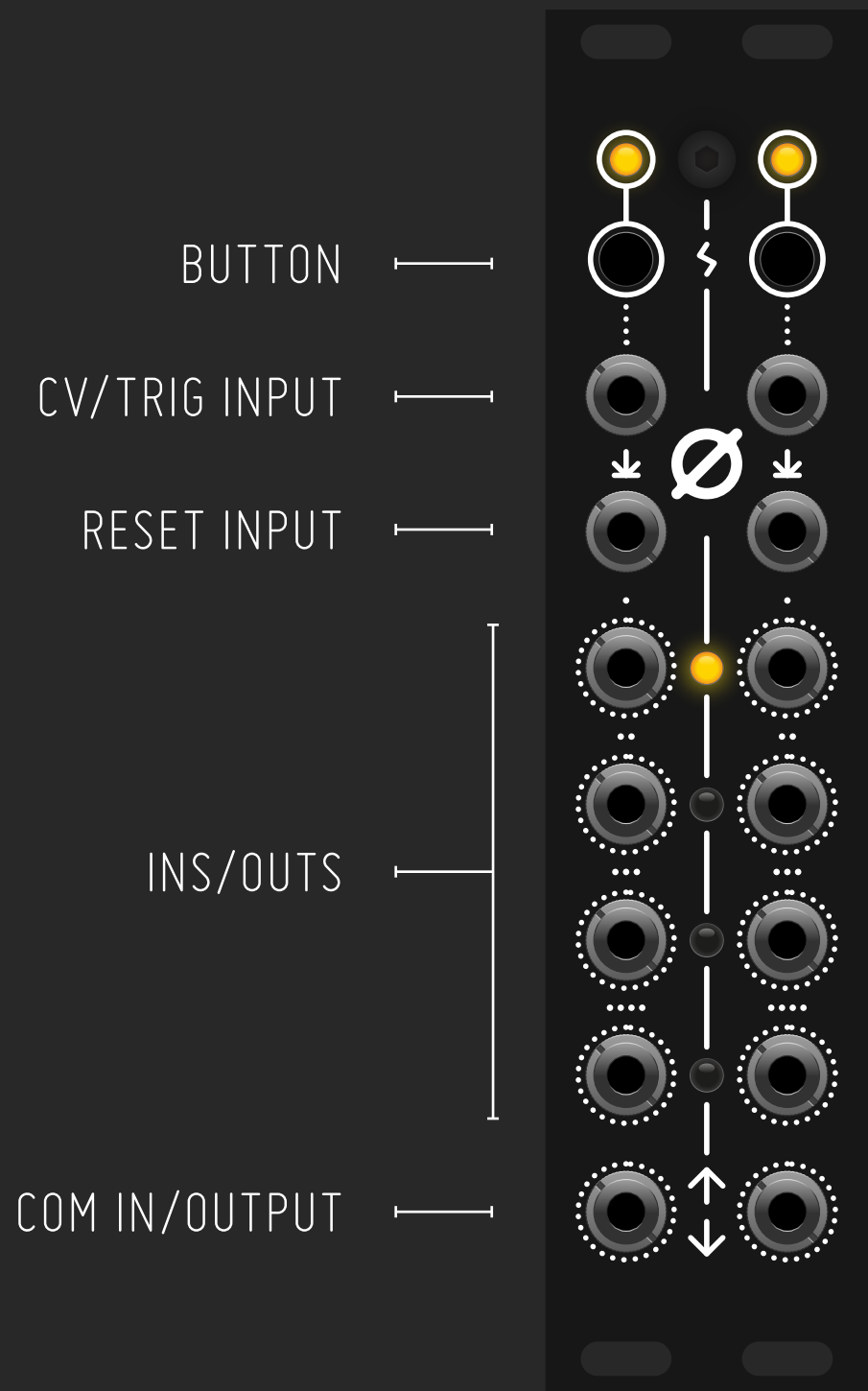
08. DIRECTION

Hold the channel button, first it starts blinking, then if you keep pressing it, it'll start blinking faster, now you can release it.

This mode determines the step direction of the channel, you can cycle through the directions by repeatedly pressing the channel button. The selected direction is indicated by the channels' color on the steps LEDs:

1. Forward
2. Backward
3. Pendulum
4. Random

Long press the channel button again to exit this mode.



09. CHAIN MODE

Press both channel buttons at once, now the two channels are one and this group is controlled by the CH1 controls (Button, CV, Reset).

The COM I/O of the 8:1 switches is the CH1 COM I/O jack.

If you want to split the channels again, just press the two buttons at once.

INS/OUTS

10. NOTE

Due to the fast switching, pops can be heard when audio is being switched.



PATH is designed by David Szebenyi under Antumbra.

www.antumbra.eu

Manual by David Szebenyi (www.aman.hu)

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