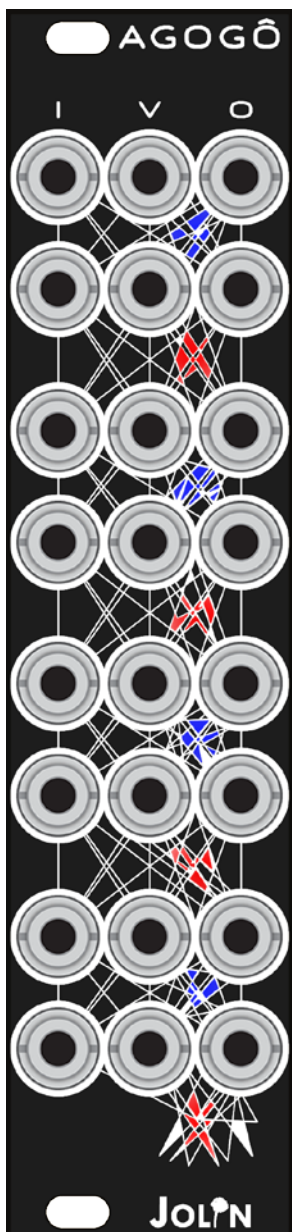# AGOGÔ

stream of gates

AGOGÔ is a pack of 8 vactrol low pass gates in an open design configuration.

why
- To bongo.
- To enhance and enrich a weak audio source.
- To create sub-mixes of up to 8 inputs.
- To send a single source to many outputs and modulate each one of them individually.

with
- Multiple fixed waveforms – use the individual LPGs as a CV scanner.
- Stereo sources – control them with a single CV input.
- EOC pulses and triggers – this is where it gets percussive.
- Slow modulations – take advantage of those vactrols and their natural decay.

how
"I", the inputs row is normalized from top to bottom.
An input inserted in the first socket will be copied unaltered to the next one.
If a jack is plugged in it will break the normalization.

"V" is for control voltages and they cascade the same way as the inputs following to natural decay of the vactrol response. All the LPGs can be opened simultaneously with a single CV source. Combining the features of both "I" and "V" rows you can control a signal with 8 different CVs or 8 different sources with the same CV.
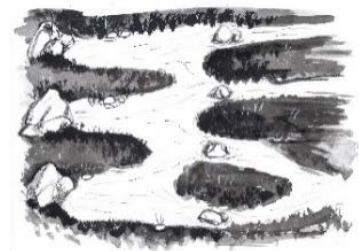
"O" stands for outputs. They act as an active mixer letting you combine up to 8 signals. As in the previous two rows, the connection can be interrupted in any given point to create sub mixes or individual outputs.

Since we are actively summing copies of the original input, each LPG stage will add saturation to the final out. Thanks to the open design path and normalizations this is just an additional feature: all the LPGs can still be used individually or in multiple combinations for multichannel effects or other creative application. More AGOGÔs can be chained together thanks to headers on the back to multiplicate the number of inputs/outputs.
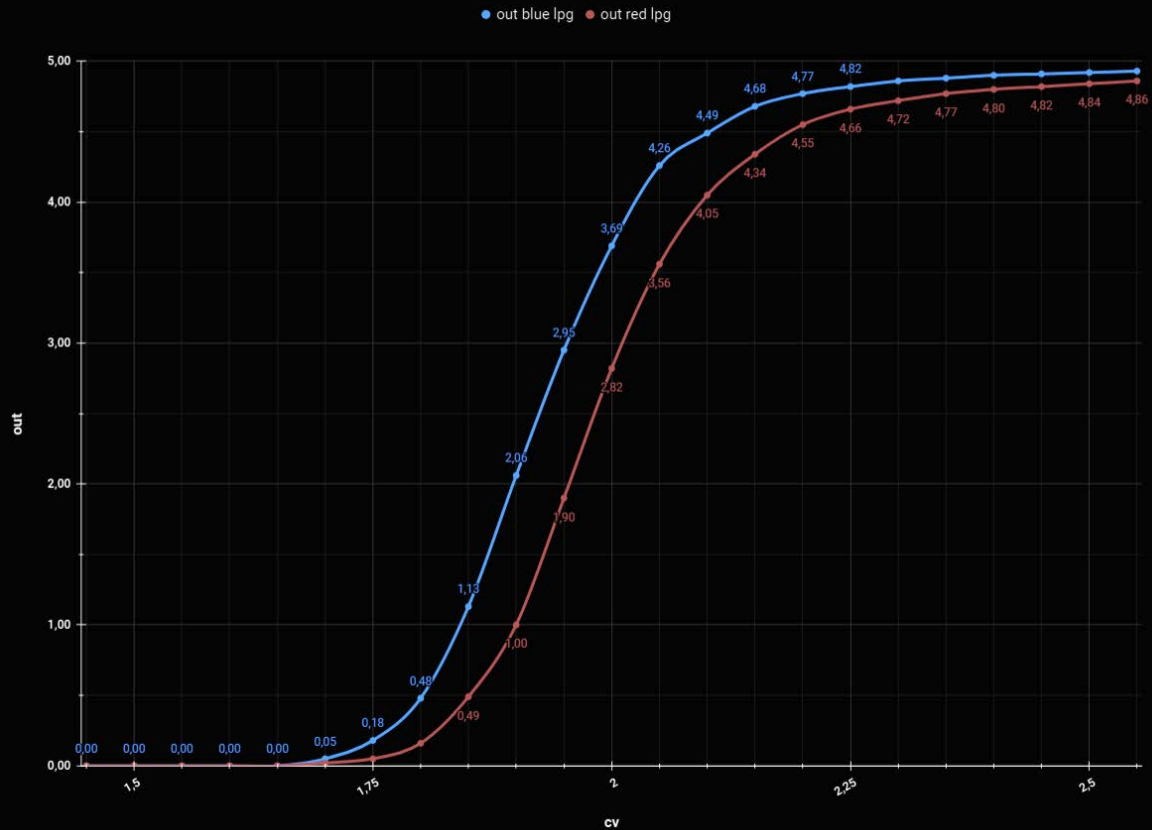
features
- 8 independent vactrol LPGs.
- Classic logarithmic vactrol curve and latency.
- Two LPG flavours: brighter – blue LEDs – and darker – red LEDs.
- Open design signal path: break the normalization at any point to change its configuration.
- Input and CV are normalled and they flow top to bottom when no jack is inserted.
- Outputs are summed to create sub-mix on the go.
- Unlimited units can be chained together.
- Works with audio and CV sources.

specs
- current draw $\implies$ +12V 150ma, -12V 90ma
- dimensions $\implies$ width 6HP, depth 28mm

Demos and build documentation at *jolin.tech/agogo*

AGOGO logarithmic response (O)
with a fixed 5v source (I) and a incremental cv input (V) | all values in volt.

● out blue lpg ● out red lpg

to chain more units together

Connect the OUT header at the bottom of the module to the IN header of the next one located on top of the next one.
Remember to not twist the cables: if a color is at pin 3 of the header, it should be at pin 3 of the next module header[1].

Refer to this picture if you have any doubts:

>   *The OUT header of module 1 is connected to the IN header of module 2 and the OUT header of module 2 is connected to IN header of module three.*

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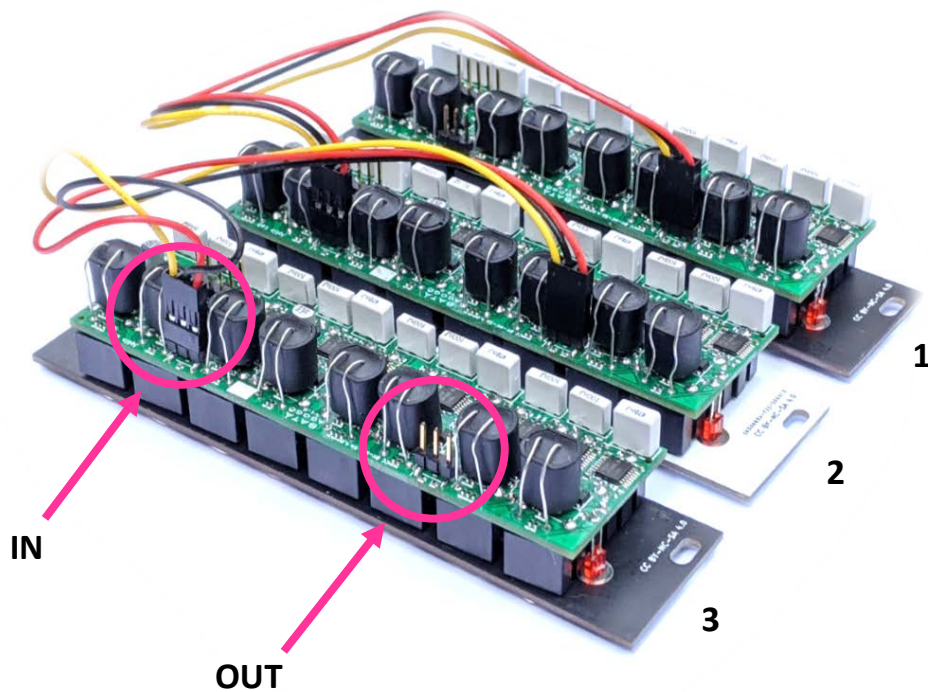
[1] V1.2 only: the output 3 pin header is reversed. The cable needs to be connected twisted.

Red line -12v goes at the bottom following the white mark on the board.
(on the black boards the header can be inserted in both ways – *whatever* style connection)