

# Thank you

Thank you for purchasing GOMA module.

GOMA stand for Generator, Offset, Mixer, Attenuverter.

Behind GOMA the idea was to improve essential modules like Shades from Mutable instruments or Quadratt from Intellijel.

We wanted to design a small module so it could fit in any case. We want it to be ergonomic and easy to use despite is size. But we also wanted to pack as much features as possible to make of it a "swiss knive module".

The result is GOMA a 4HP width module, that Unlike Shades or Quadratt feature a control to switch normalised input to +5V or +10V on each channel.

GOMA also features a expander allowing to daisychain multiples modules to create virtually infinite mixer/offset generator.

GOMA is so flexible that we use in all our patchs, we are very please about it and we hope you'll like as much as we are.

## Summary

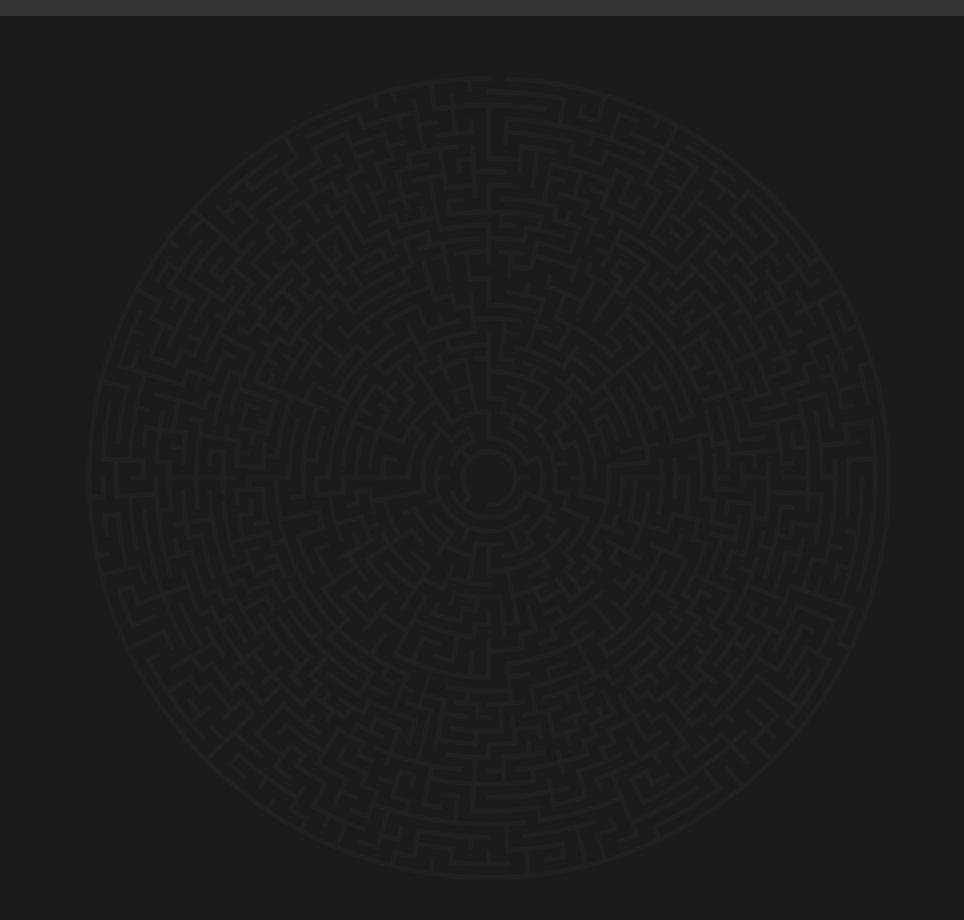
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# **GOMA**

# Installation & power safety



Unplug you rack power from the main.



As shown on the sketch on the right, align the red line from the power ribbon cable with the line draw next to the power connector.



Check twice the alignment of the ribbon cable.



Plug you rack power to the main and power you



Set each channel to Polarizer / 10V Use feedback LED to test each channel Set each knob to 0% feedback LED should be red Set each knob to 100% feedback LED should be Green



If the feedback LED light up like they should do you module is ready, if not please contact us at : contact@blacknoisemdodular.com

## **General Specifications**



### Power Consumption



### Panel Width



# → Module Depth

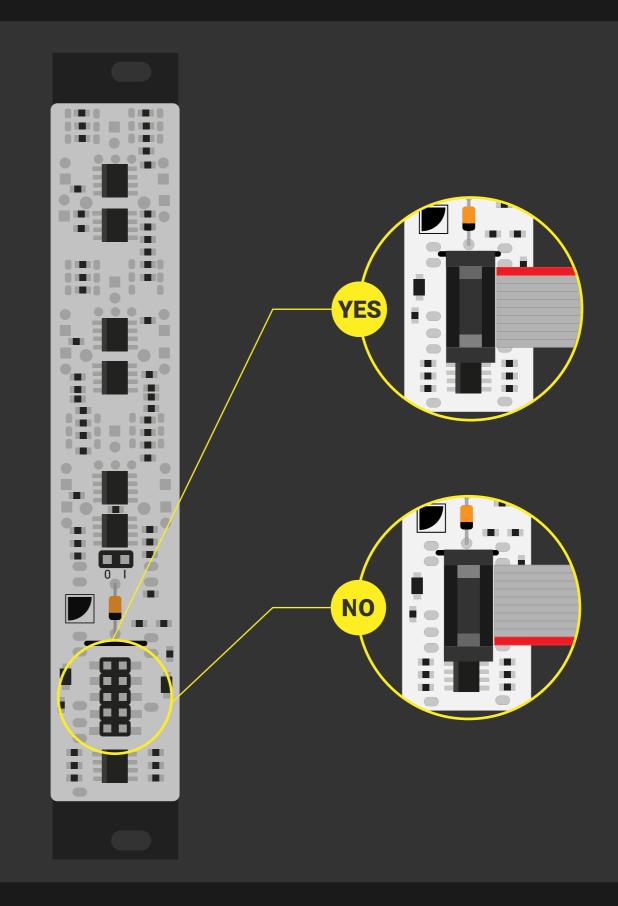
### Warranty

BLACK NOISE warrants is products to be free of defects in materials or workmanship and to be conform with the specifications at the time of shipment for a period of two years from the date of purchase.

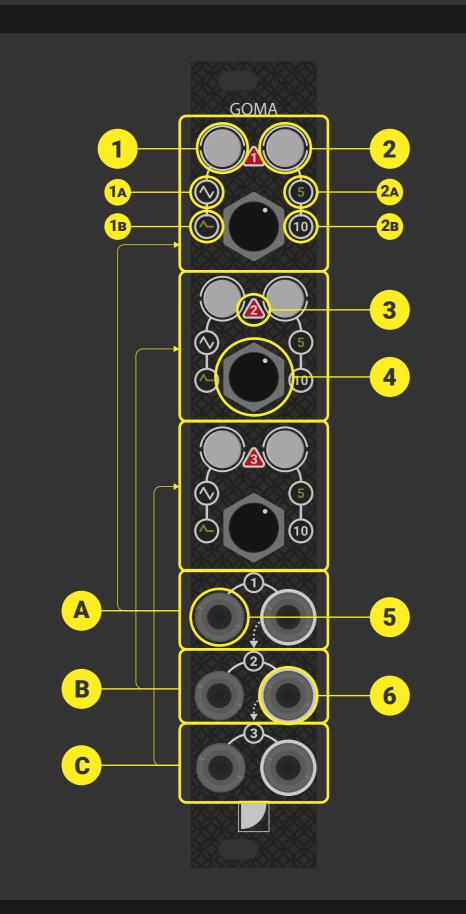
During that period any malfunctionning or damaged units will be repaired, service and calibrated into your workshop. This warranty does not cover any problems resulting from damages during shipping, incorrect installation or power supply, abusive treatement, or any other obvious user-inflicted fault.

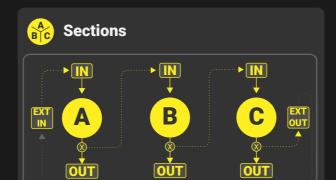
If your product warranty is passed, it still can be serviced as long as parts are available in our workshop. We reserve the right to charge for labor, parts and transit expenses where applicable.

Before sending your product to our workshop please contact us for RMA and details. Any unsolicited parcel will be rejected and or returned. The postage to our workshop is on the customer. The return of your module is on us. BLACK NOISE can not take any responsability for damages caused during transport.







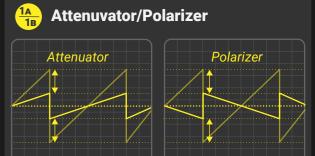


GOMA can be use as a flexible mixer with virtualy infinite channels. The modules is made of 3 identical sections. If nothing is plug into the output of a section the signal flow allowing to create infinite mixer.

# 1 Mode Selector Polarizer selected



attenuverter or as Attenuator. The dedicate switch allow to switch between each mode.



Attenuator mode

Attenuator mode allow to attenuate the input signal.

The polarizer also known as Attenuverter allow not only to attenuate the signal but also to invert it.

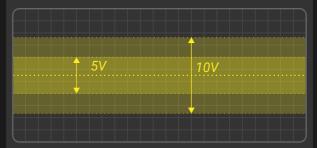
# 2 Range Selector





The input of each sections is normaled to either +5V or +10V. The dedicate switch allow to switch between

# <sup>2A</sup>/<sub>2B</sub> +5V/+10V



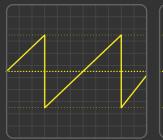
### Attenuator mode

In attenuator mode and according to the selected voltage mode you can generator voltage from 0V up to +10V.

### Polarizer mode

In polarizer mode and according to the selected voltage mode you can generator voltage from -10V up to +10V.

# 3 Signal Feedback

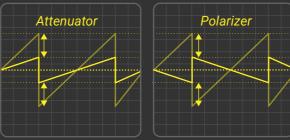




display the processed signal going into the output.

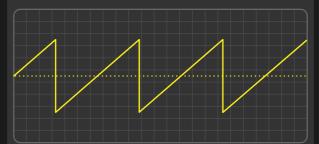
For positive voltage the LED light up in green, negative voltage are displayed in red.

# 4 Mode Control



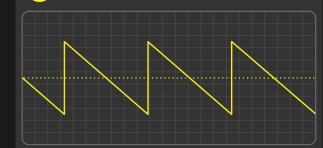
According the selected mode, the control knob allow you to attenuate or inverter the input signal.

# 5 Signal Input



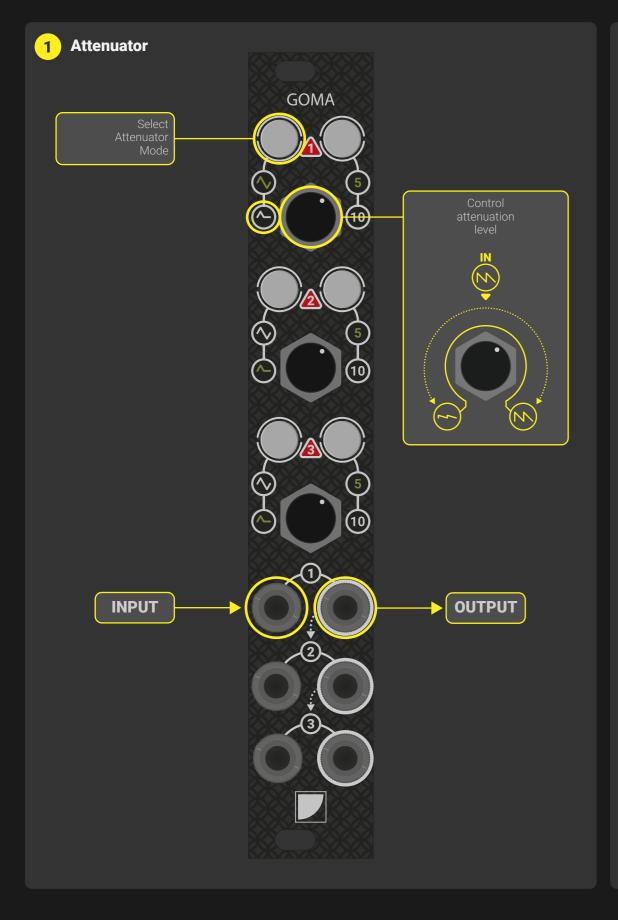
Input for your signal to process. Each input is normaled to +5V or +10V according to the selected mode.

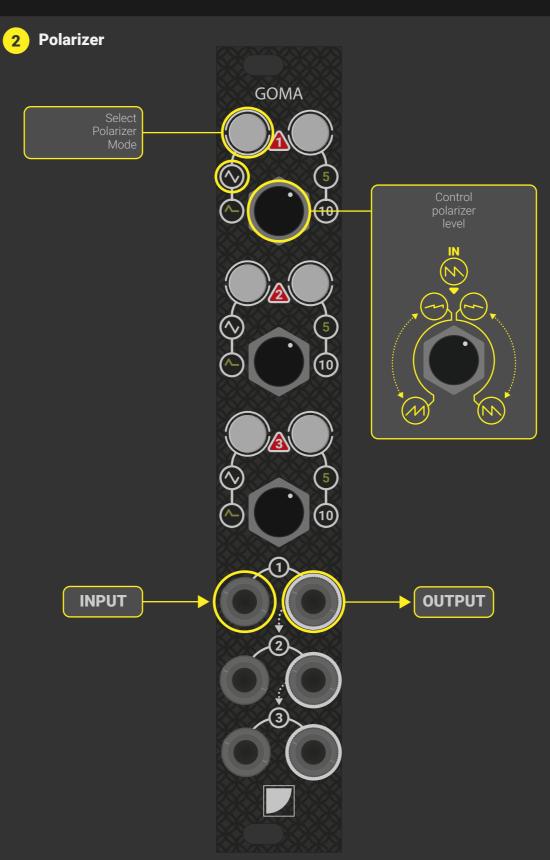
# 6 Signal Output

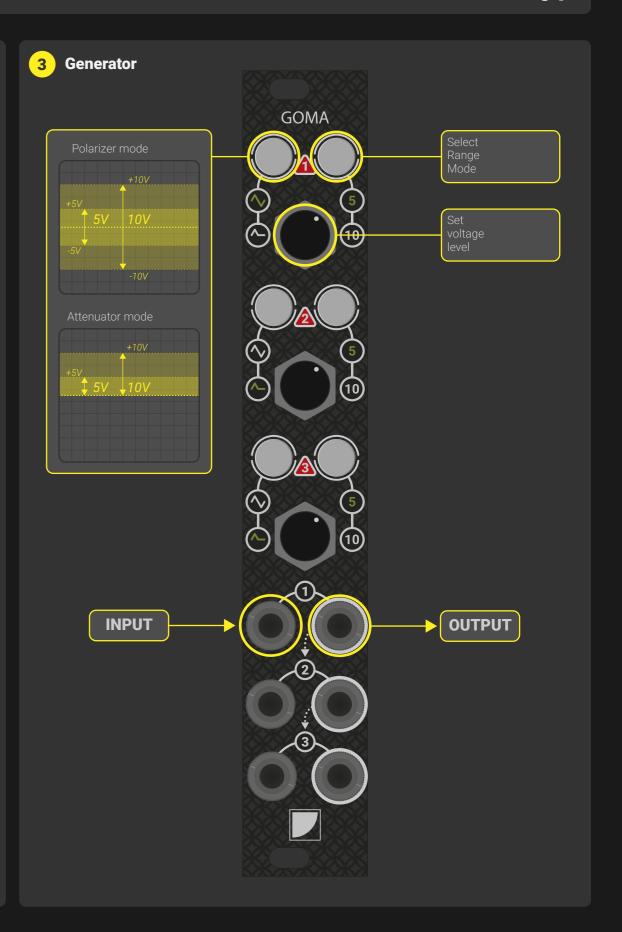


Output of the processed signal. If no jack is plugged the signal go into the next section allowing for offsetting or mixing signals.

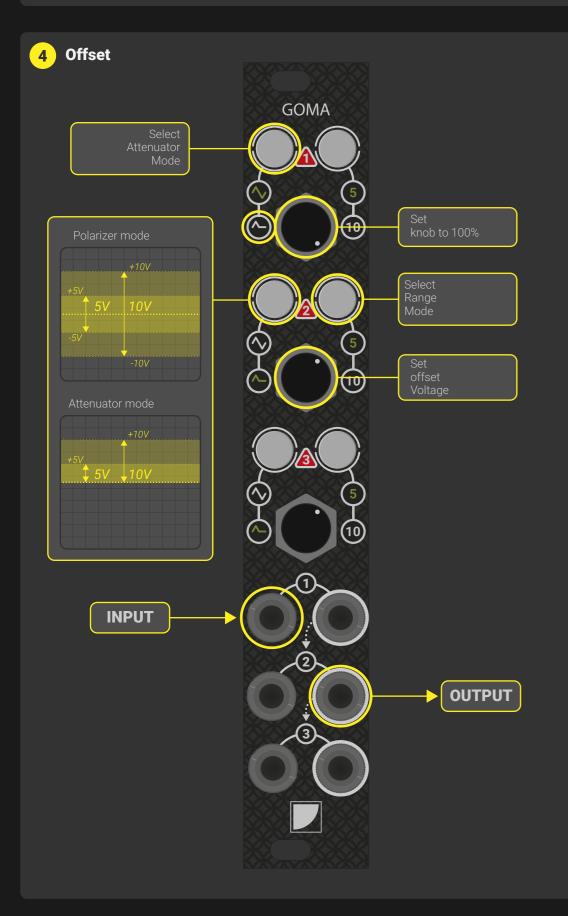


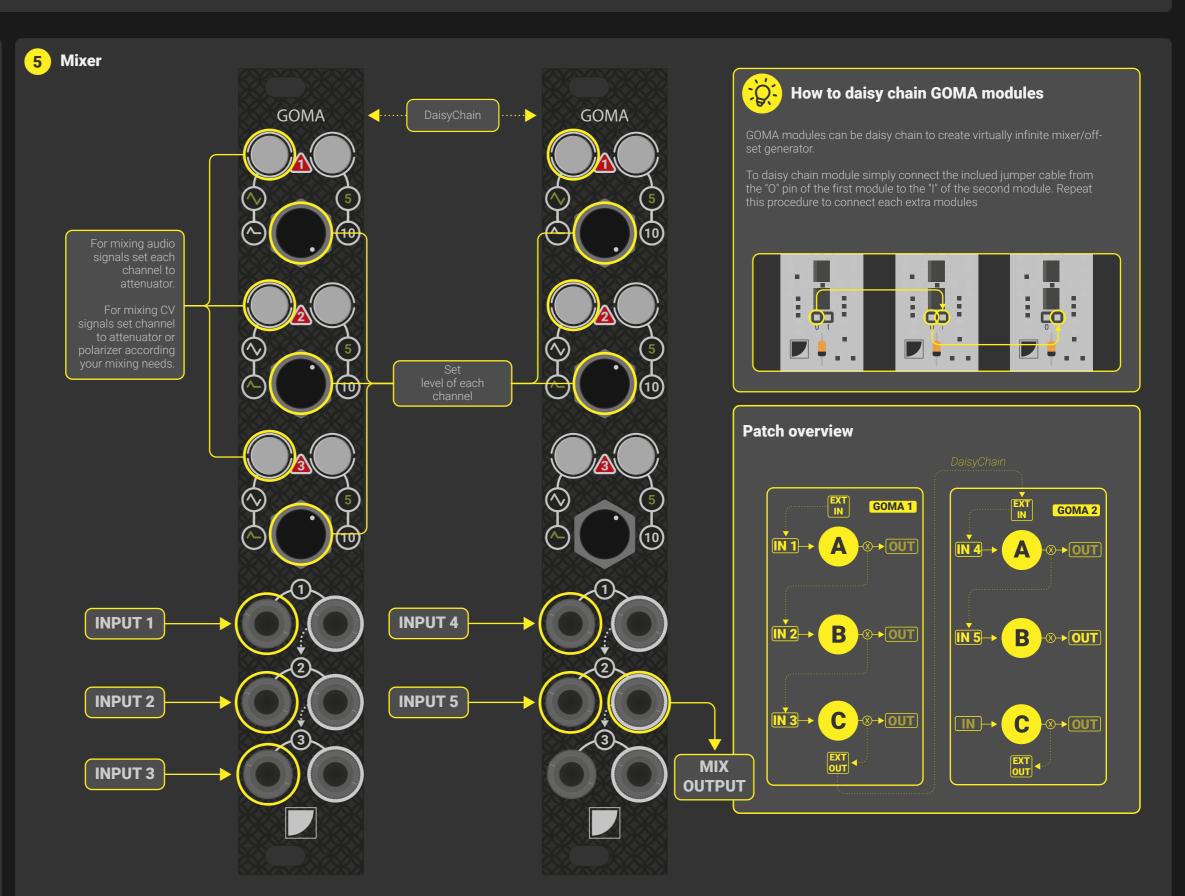


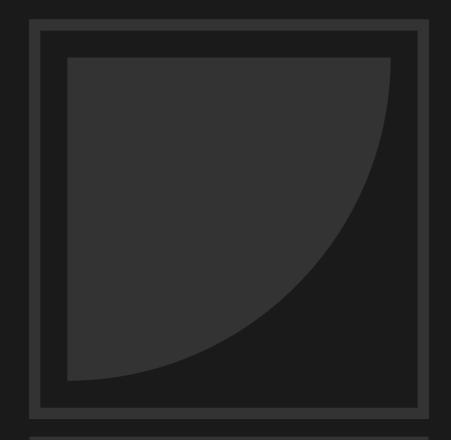












GOMA

**USER MANUAL**