

# • PERFORMANCE • MIXER

Quick guide



# Thank you for choosing PERFORMANCE MIXER for your Eurorack System.

## Powering up

1. Turn off the power of your modular synthesizer.
2. Double check the power cord polarity. If you plug the module backwards you might damage its electronic circuits.



*If you flip over your PERFORMANCE MIXER, you will find the "RED" mark at the PCB power connector, which must match the colored line on the ribbon cable.*

3. Once you have checked all the connections, you can turn on your modular system.
4. If you notice any anomalies, turn your system off right away and check again your connections.

## Description

The **PERFORMANCE MIXER** is the core of your modular setup, designed to mix and shape your audio signals. It offers individual **Volume control** for each channel, letting you adjust how loud each sound is in the mix. The mixer also has **Panning**, so you can place sounds in different parts of the stereo field.

There are **2 Auxiliary Sends** on the mixer, which can be set to either PRE or POST VCA, allowing you to route channel signals to external effects. It also includes two **Stereo Returns** with their own volume controls. The mixer features **Clickless Mute** controls for each channel, making it easy to turn sounds on and off without changing volume settings.

A unique feature is the **Cue bus**, really useful for setting up tracks before they go live, especially in live performances, or even for routing channels for external processing.

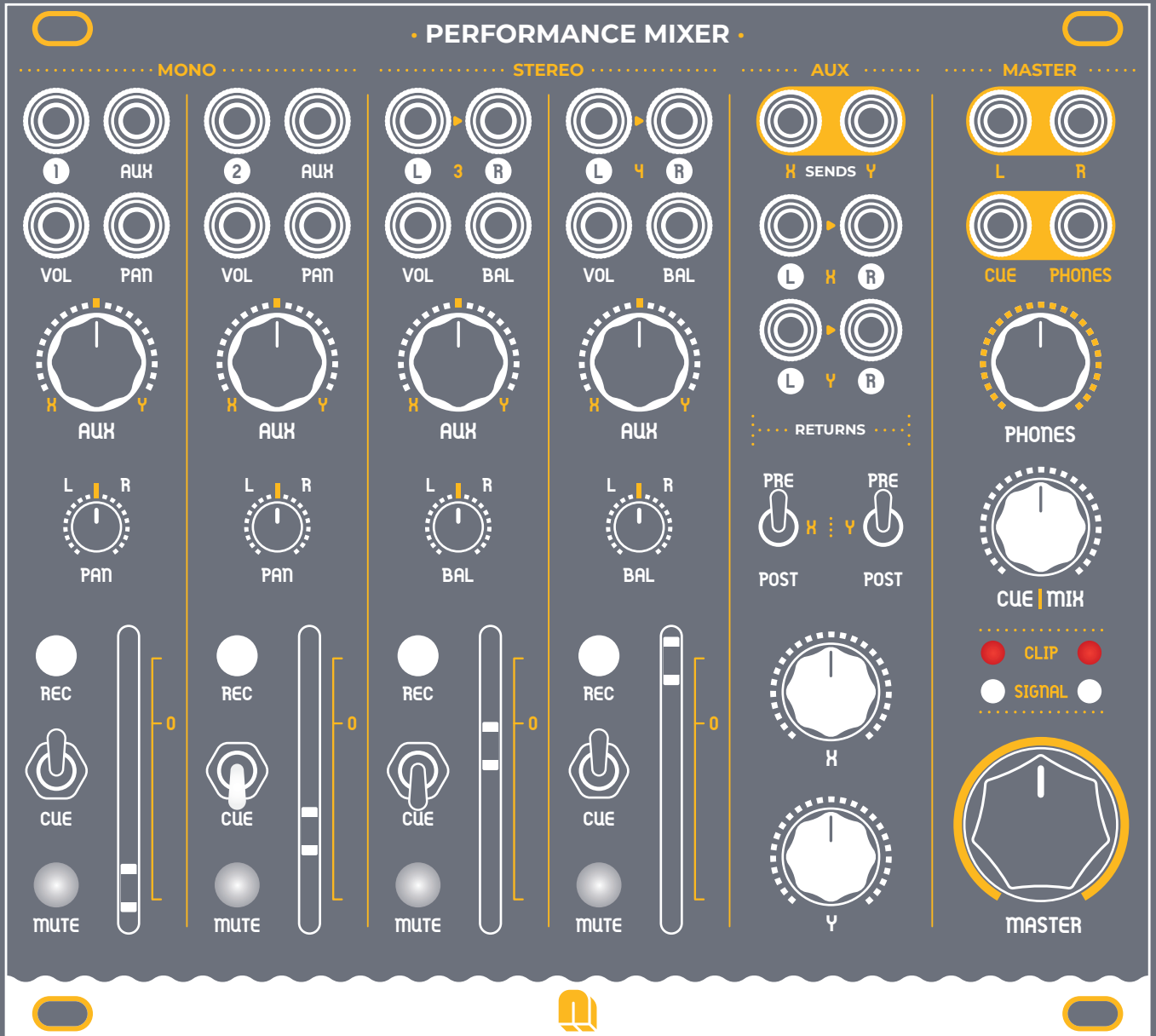
The mixer includes a **Phone amplifier** for direct monitoring of the main mix, the cue bus, or a blend of both. This makes the Performance Mixer a versatile tool for both live shows and studio work.

Each channel comes with a **Knob Recording function**. This lets you record and replay adjustments you make with the knobs, adding a personal touch to your performances or recordings.

Additionally, the mixer has a **Master Volume** adjust for the main mix, giving you overall control of the output level. This is especially useful for ensuring your final mix is balanced and at the right volume.

# Layout · General view

This image will clarify the function of each of the elements of the module.

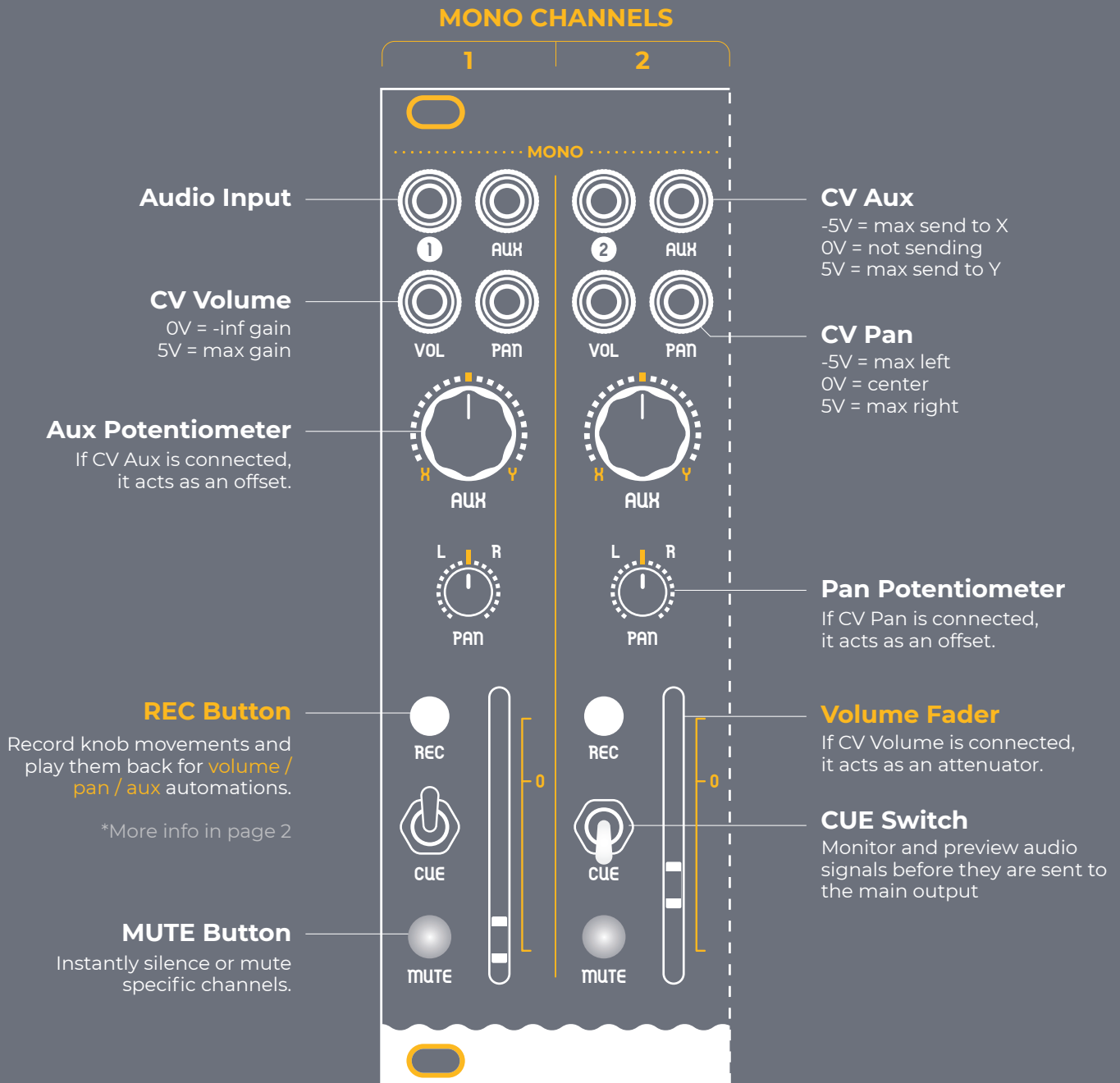


# Layout · MONO Channels

## Channels 1 · 2

Volume, Panning and Auxiliary send controls with CV for each function.

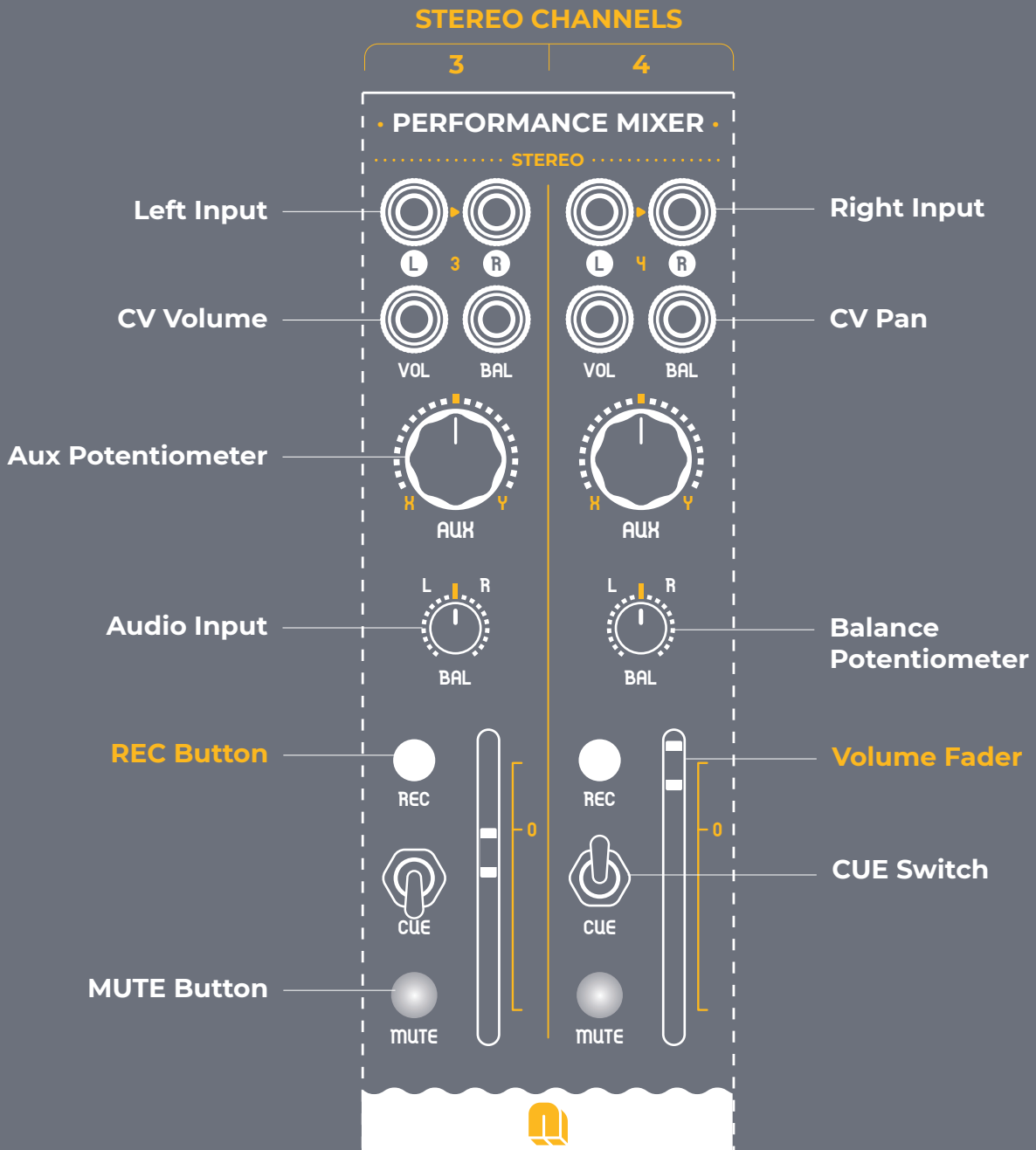
Knob recording (REC), CUE bus and MUTE function are operated through the switches.



## Layout · STEREO Channels

### Channels 3 · 4

Same as MONO Channel, but the CV for the AUX function is replaced by the right (R) audio input.



## Layout • AUXILIAR & MASTER

### AUXILIAR

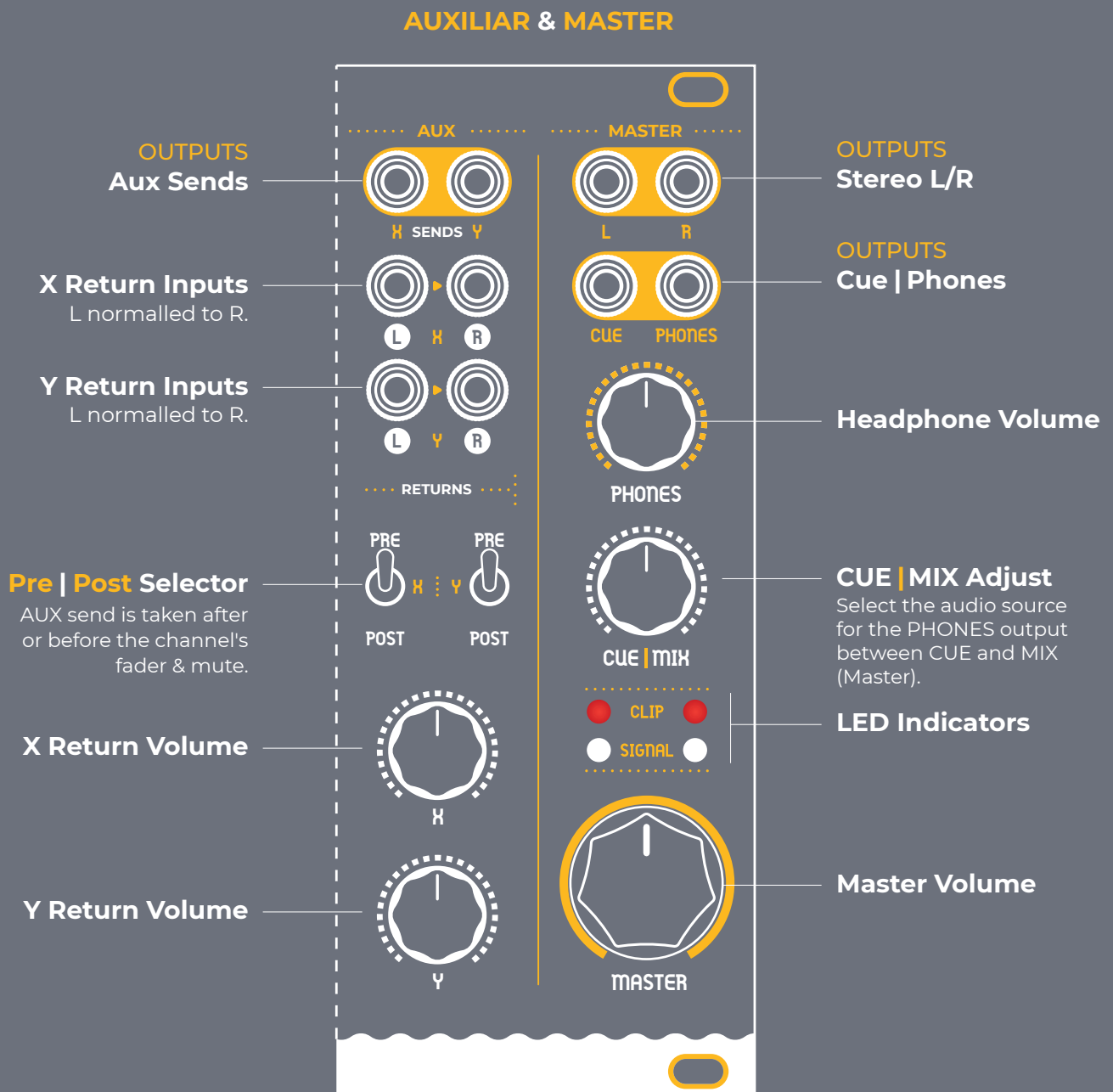
2 **Mono Sends** (X & Y) with pre-fader / post-fader selector for each channel.

2 **Stereo Returns** with volume adjust.

### MASTER

**Master volume** adjust for the main outputs with **vu-meter** for checking the signal levels.

**Headphone output** with **volume** and **cue/mix** blending knob.



## Knob Recording Feature

Easily **record and loop** the movements of **AUX**, **PAN** and **VOLUME** controls on each channel, adding depth and dynamism to your sound. **Up to 12 seconds for each parameter.**



Fig.1 Image of how to record a parameter

### • How to record

Just **press the REC button** and then move the desired knobs to start recording.

If the **REC button is pressed and the knob position is changed**, the program will **write the knob movement** on to a buffer. When the REC button is released the module will reproduce the buffer **in loop**.

### • How to delete

**To delete a recording**, press **REC + MUTE** and move the selected knob to be de-automated.

**REC + MUTE during 2 seconds**

Delete all recordings of the channel

**REC + MUTE during 3 seconds**

Delete all mixer recordings

### • MUTE LED

The light on the MUTE button not only shows whether each channel is **muted or not**, but also gives information about the status of its **Knob Recording function**:







ACTION		COLOUR	CHANNEL STATUS
None		OFF	Normal functioning
Press MUTE		FIX RED	Mute Channel
Press REC		FIX ORANGE	Ready to record
Press REC + Move parameter		FIX GREEN	Recording
Release REC after recording		BLINKING GREEN	Reproducing
Press MUTE while reproducing		RED-GREEN	Mute while reproducing

Fig.2 Explanation table for MUTE LED



## Compliance

This device complies to the **EU guidelines** and is manufactured **RoHS** conforming without use of lead, mercury, cadmium and chrome. Nevertheless, this device is special waste and disposal in household waste is not recommended.

This device meets the requirements of the following standards and directives:

- **EMC: 2014/30/EU**
- **EN 55032.** Electromagnetic compatibility of multimedia equipment.
- **EN 55103-2.** Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use.
- **EN 61000-3-2.** Limits for harmonic current emissions.
- **EN 61000-3-3.** Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems.
- **EN 62311.** Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields.
- **RoHS2: 2011/65/EU**
- **WEEE: 2012/19/EU**



## Guarantee

This product is covered by **2 years of guarantee** on purchased goods, which begins when you receive your package.

- **This guarantee covers**

Any defect in the manufacturing of this product.  
Replacement or repair, as decided by NANO Modules.

- **This guarantee does not cover**

Any damage or malfunction caused by incorrect use , such as, but not limited to:

- Power cables connected backwards.
- Excessive voltage levels.
- Unauthorized mods.
- Exposure to extreme temperature or moisture levels.

Please contact our customer service - [jorge@nanomodul.es](mailto:jorge@nanomodul.es) - for a return authorization before sending the module. The cost of sending a module back for servicing is paid for by the customer.

## Technical Specifications

**Dimensions** 28HP 142,2x128,5mm

**Current** 200 mA +12V / 125 mA -12V / 0 mA +5V

**Output** Signals  $\pm 10V$

**Impedance** Input 10k – Output 10k

**Materials** PCB and Panel – FR4 1,6mm

**Depth** 40mm including connectors (Skiff friendly)

Modules are designed and assembled in València.

## Contact

### Bravo!

You have learned the basic fundamentals of your PERFORMANCE MIXER.

If you have any doubts, please feel free to contact us.

[nano-modules.com/contact](https://nano-modules.com/contact)