

The



User Guide

AVS-MIXER-1 Audio & CV Mixer



Thank you for purchasing from AvonSynth

Congratulations on your purchase of a brand new AvonSynth AVS-MIXER-1 Audio & CV Mixer Eurorack Module. We trust that it will both serve and inspire you as you create beautiful music with it for years to come.

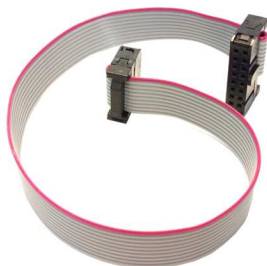
In order to get the most out of your module, please ensure that you read this User Guide in its entirety so that you fully understand all of its functionality, and that you follow all necessary safety directions during use.

Included in the Box

1 x Mixer Module



1 x 10 pin to 16 pin flat-cable power cord



4 x M3 Mounting Screws



4 x Nylon Washers



Installation

Step 1: Power your system off. Place the module in your Eurorack-compatible rack in any convenient position. Affix the module to your rails using the included mounting screws and nylon washers. Neglecting to use these washers may result in unnecessary marking of the unit.

Step 2: Triple check the polarity of the power connector before connecting the power cord to your power supply. Ensure that the -12v line marked on the back of the module connects to the same end of the flat-cable that also connects to the -12v line on your power supply. While AvonSynth modules use shrouded connectors that make this process safer and more reliable, some systems do not conform to this polarity standard, so careful checking is **always** necessary. Connecting the module with incorrect polarity can result in irreversable damage done to the module which cannot be covered by warranty.

Step 3: Power up your system and start patching!



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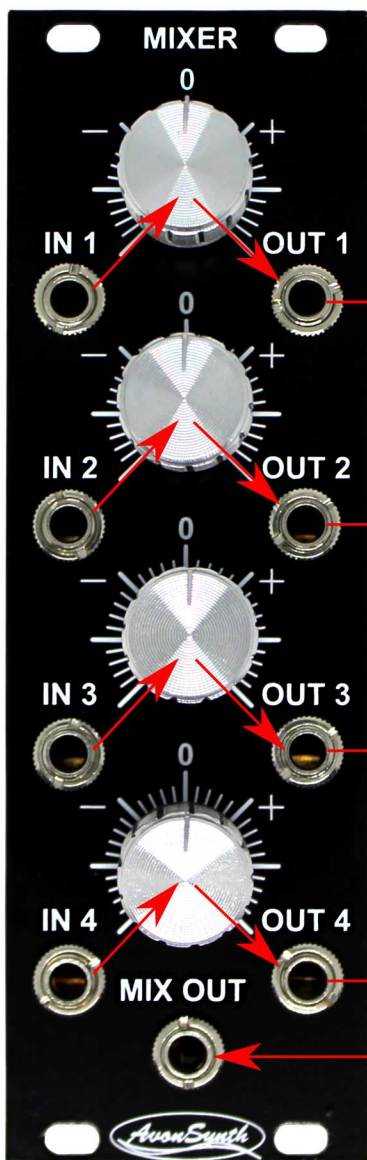
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AVS-MIXER-1 Audio & CV Mixer

Features & Specifications

- Fully analogue Audio & CV Mixer utility module
- 8 HP wide (40.3mm), 20mm deep
- Current consumption: +12V 24ma, -12V 24ma
- 4 channels with both independent and mixed outputs
- Knobs configured as attenuverters, useful for both controlling gain and inverting signals
- Unused channels double as precision CV voltage generators from -10V to +10V
- Modes of use include as audio mixer, precision CV source, audio/CV inverter and more

Description of Functionality



As an Audio Mixer

Plug the audio signals to be mixed into the inputs, use the knobs to set their levels, with the middle (zero) point being silence, clockwise movement from the middle adding gain, and anticlockwise movement adding negative gain (inverted signal). The Mix Out socket provides a mix of all 4 channels.

As a CV Source

Each input is normalled to a precision voltage source, specified as 5v or 10v by the jumper on the rear of the unit. This means that each channel that does not have a patch cable inserted into the input acts as a static voltage generator where the position of the knob sends a voltage to the output corresponding to the position of its knob.

These static voltages can also be added together with audio signals in order to bias them for the purposes of waveshaping. If biasing is unwanted, make sure to zero out unused channels, or remove the jumper altogether.

As a CV Processor

Many modules have CV inputs without associated attenuators, and there are a large variety of voltage level and biasing standards among various modules and manufacturers. By piping a CV through a channel of this module, precise scaling, inversion, and biasing can be carried out, allowing significantly enhanced and flexible control of a range of modules on demand.



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Safety Precautions

Please use this module in accordance with the following safety guidelines in order to maximize the life of the module and ensure warranty from AvonSynth.



Keep water and other conductive liquids and materials away from this module. It is not water proof, or even water resistant. Exposure to these can cause short-circuits that can render the equipment unusable.



Be sure to keep this equipment in an environment with an ambient temperature above -20°C and below $+50^{\circ}\text{C}$. Excessively hot or cold temperatures can be damaging to the electronic circuits used.



Modules with exposed circuit-boards are delicate. Take the utmost care when handling and transporting this equipment, making sure not to subject it to excessive forces. Ensure that the module is installed correctly while being transported and that the original packing materials are used when sending the module anywhere by post.

Warranty & Support

This product is covered by AvonSynth's warranty for one year from the manufacturing date. Within this timeframe, any manufacturing defect will be repaired or replaced by AvonSynth. Damage caused to the product due to not following the safety precautions above, unauthorized modification of the hardware, or misuse such as subjecting the unit to reverse or excessive voltages will void this warranty.

If you have any concerns about your AvonSynth hardware, please get in touch via info@AvonSynth.com to discuss any issues. We will do our best to assist you in getting your hardware operating correctly, and if necessary, we will provide an RMA (Return Merchandise Authorization) to send back the unit for inspection. Any postal costs incurred in this process will be the responsibility of the customer. Please do not send back merchandise before receiving this authorization.