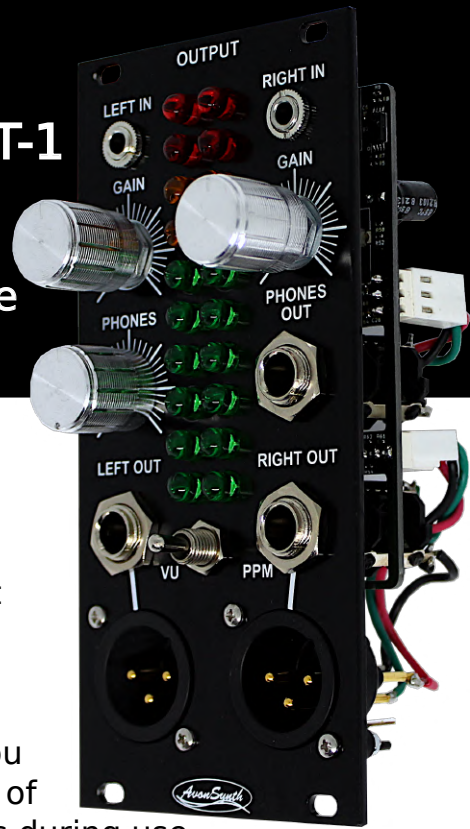


The

AvonSynth User Guide

AVS-OUTPUT-1

Professional
Output Module



Thank you for purchasing from AvonSynth

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

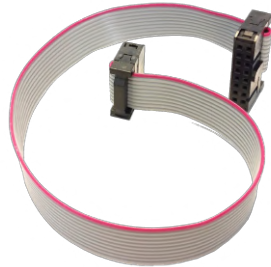
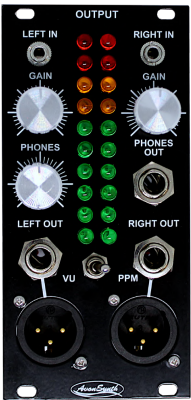
In order to get the most out of your module, please ensure that you read this User Guide in its entirety so that you fully understand all of its functionality, and that you follow all necessary safety directions during use.

Included in the Box

1 x Professional Output Module 1 x 10 pin to 16 pin flat-cable power cord

4 x M3 Mounting Screws

4 x Nylon Washers

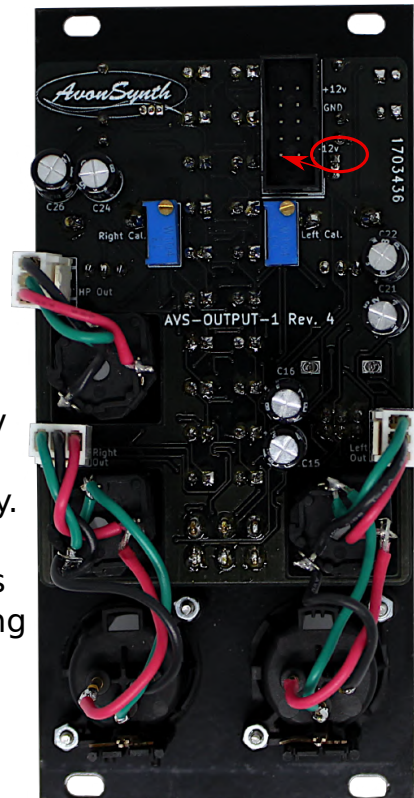


Installation

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 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!



Features & Specifications

- Stereo output module that interfaces your modular with external gear in the optimum way
- Fully analogue signal path using high-end componentry and individual left and right gain
- 12 HP wide (60.6mm), 30mm deep, current consumption: +12V 50ma, -12V 50ma
- 'Constant-current' architecture prevents current spikes from the LEDs on the power rails
- Accurate, manually calibratable stereo metering for proper gain-staging for your gear
- Fully balanced 6.35mm (1/4") TRS and XLR outputs for low noise and durable interfacing
- Metering response switch to choose between averaging (VU) or peak (PPM) style metering
- Dedicated high-end stereo headphone amplifier with separate gain and 6.35mm TRS Socket
- All TRS and XLR outputs utilise high quality, genuine Neutrik^(TM) sockets
- Automatic mono to stereo conversion when only left input is used

Description of Functionality

Left & Right Inputs

3.5mm input sockets for the left and right channels of the module. The Right input is normalised, so that when only the left input is utilised, the signal is sent to both channels.

Left & Right Gains

These two knobs control the gain of the inputs on their way into the module. The module is calibrated from the factory so that in the twelve o'clock position, given a +/-5V modular level input, a +4dBu professional line level signal will be present at the outputs, and the meters will reach the top of the green segment.

Headphone Amplifier Gain & Output

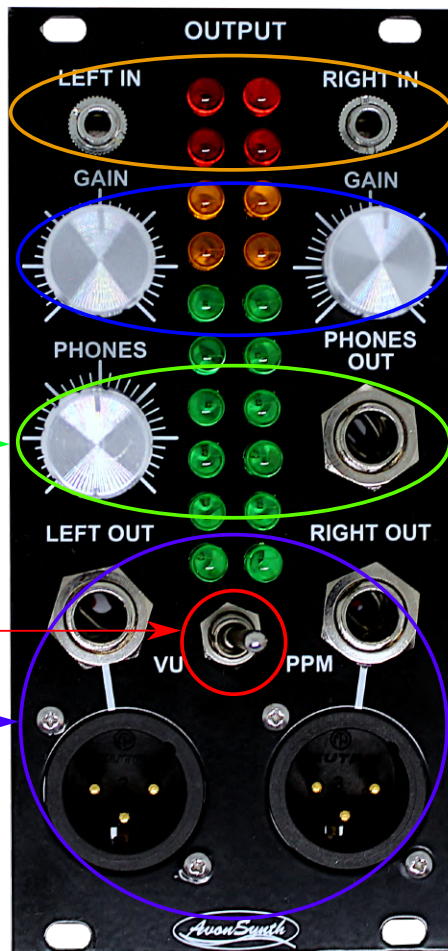
This knob controls the gain of the headphone amplifier, whose output is situated to its right. The output is a 6.35mm (1/4") TRS socket.

Metering Response Switch

This toggle switch sets the metering behaviour between averaging (VU) style metering, best for observing loudness, and peak (PPM) style metering, best for avoiding clipping.

Left & Right Outputs

The main left and right outputs of the module. The 6.35mm (1/4") TRS sockets are wired in parallel to the XLRs, and utilise a pseudo-floating balanced configuration that allows both balanced (TRS/XLR) connections, and unbalanced (TS). Connect these to your audio interface, mixer, monitor speakers or other gear.



Left & Right Calibration Trimmers

These trimmer potentiometers adjust the level of the left and right inputs' signals to the LED bars on the front panel. These allows users to manually choose which audio level corresponds to which LED level as desired.



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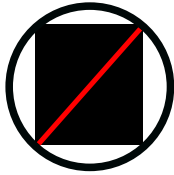
Professional
Output Module

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.