

The

AvonSynth

AVS-LFO-1
Dual LFO

User Guide



Thank you for purchasing from AvonSynth

Congratulations on your purchase of a brand new AvonSynth AVS-LFO-1 Dual LFO 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 Dual LFO Module



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



2 x M3 Mounting Screws



2 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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Features & Specifications

- Fully Analogue Low Frequency Oscillators
- 6 HP wide (30mm), 20mm deep
- Two independent and identical LFOs in one module
- Current consumption: +12V 15ma, -12V 15ma
- Frequency control range from several seconds per period, to approx. 20Hz
- Simultaneous triangle and pulse outputs with swing of +/- 5v
- Skew control which morphs triangle output between sawtooth, triangle, and ramp
- Skew control also acts as PWM control of pulse output

Description of Functionality

Frequency

Controls the rate of the LFO's oscillation from several seconds per oscillation, to the edge of audio rate. This control has an exponential frequency response.



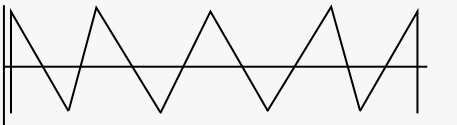
Triangle Output

Outputs an oscillating control voltage with a default triangle shape at a level of +/- 5 volts.

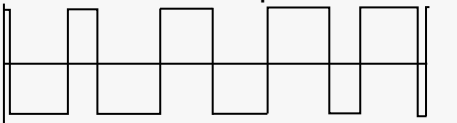


Skew Behaviour

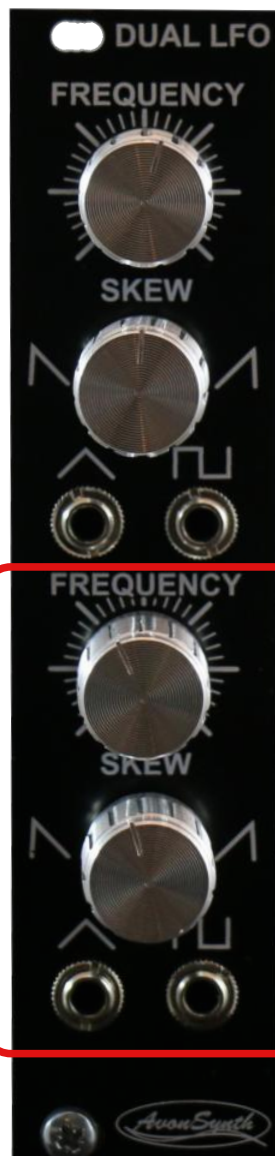
Triangle Output



Pulse Output



Skew knob position



Skew

Morphs output waveforms, skewing their shape in the direction of the knob's travel. The centre point of the knob produces the shape depicted above each output. Turning the knob left and right tilts the triangle output towards the shapes depicted to the left and right of the knob. It also doubles as a pulse-width control for the pulse output.



Pulse Output

Outputs an oscillating control voltage with a default square shape at a level of +/- 5 volts.



The bottom half of the module is an identical reproduction of the top half with entirely independent frequency and wave-shapes.



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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.