LFO

Contents

Description

LFO is a voltage controlled low frequency oscillator. 8 waveforms are available with smooth morphing between each, allowing for complex and unique patterns.

In addition to sine, triangle, sawtooth, and square waveforms on the primary output, four alternate waveforms are accessible simultaneously via the secondary waveform output. The alternate waveforms have been designed with modulation in mind and provide an innovative voltage source to use on filters, oscillators, and everything else.

Animate your modulations with LFO.

- Wide frequency range: 30 second cycle to audio rate
- 2 Simultaneous outputs
- Smoothly blends between waveforms
- Reset input for syncing to clock source
- Skiff friendly

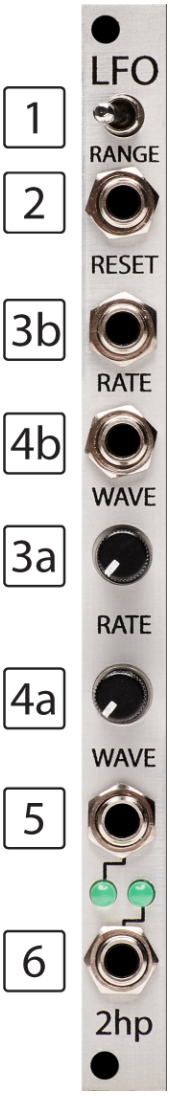
Installation

To install, locate 2HP of space in your Eurorack case and confirm the positive 12 volts and negative 12 volts sides of the power distribution lines. Plug the connector into the power distribution board of your case, keeping in mind that the red band corresponds to negative 12 volts. In most systems, the negative 12 volt supply line is at the bottom. The power cable should be connected to the module with the red band facing the front of the module.

Specifications

- Size: 2HP
- Depth 42mm
- Current Consumption:
  - +12V: 40mA
  - -12V: 6mA

Diagram



Functional Overview

1. Range Toggle Switch

Configures between two ranges for the LFO rate.

When set to the left, the range is between 27 sec and 20Hz.

When set to the right, the range is between 3.3 sec and 152Hz.

2. Reset Input

Trigger input for resetting the phase of both LFO outputs.

3. Rate

Controls the rate of the LFO.

Switch Pos	Min	Max
Left	27 sec	20 Hz
Right	3.3 sec	152 Hz

3a. Rate Knob

Knob for controlling the Rate of the LFO.

3b. Rate CV

Control voltage is added to the Rate Knob position.

Unipolar 0-5V.

4. Wave

Control for setting the waveforms of both outputs.

The control interpolates smoothly between all waveforms.

Output	1	2	3	4
1	Cosine	Triangle	Saw	Square
2	FM Sines	Inverted Triangle	Ramp	Stepped Triangle

4a. Wave Knob

Knob for setting the waveforms.

4b. Wave CV

Control voltage is added to the Wave Knob position.

Unipolar 0-5V.

5. Primary Waveform Output

0-5V Output of the primary waveform.

LED brightness corresponds to the output voltage.

6. Secondary Waveform Output

0-5V Output of the secondary waveform.

LED brightness corresponds to the output voltage.