

LFO

1) Introduction

LFO Module is a dual voltage controlled low frequency oscillator. Frequency modulation, amplitude modulation and mixing makes it possible to obtain an unlimited number of waveforms.

16 waveforms are available: saw, ramp, triangle, sine, square, random and others.

Each LFO has its own display that either works as an oscilloscope or displays the menu settings.

The LFO frequency can be controlled by hand or CV. The LFO amplitude can be controlled by CV. The LFO can be synchronized to another waveform using reset input.

Frequency range: from 1 minute to 40Hz with the manual frequency control, from 6 minutes to 70Hz with additional external CV.

Output CV: +2.5v/-2.5v and +5v/-5v with full mix.

2) Overview

- 1) Waveform changer LFO 1 / Menu settings 1
- 2) Waveform changer LFO 2 / Menu settings 2
- 3) Frequency control LFO 1
- 4) Frequency control LFO 2
- 5) Display wave 1 oscilloscope / Menu settings 1
- 6) Display wave 2 oscilloscope / Menu settings 2
- 7) Mix level control 1
- 8) Mix level control 2
- 9) Mix in 1
- 10) Mix in 2
- 11) CV input 1
- 12) CV input 2
- 13) Reset input 1
- 14) Reset input 2
- 15) Trigger output 1
- 16) Trigger output 2
- 17) LFO output 1
- 18) LFO output 2



3) Controls and indicators

1, 2) Changes waveform (rotation).

It allows to switch from the oscilloscope mode to the menu of waveforms.

Pushing the button over 3 seconds starts the menu settings. Through this menu you can change:

- CV input voltage range;
- CV input mode among frequency modulation, amplitude modulation or both simultaneously;
- reset mode between the constant oscillation, one/two/three periods or clockable mode.

3, 4) Adjust LFO frequency.

5, 6) The display works as an oscilloscope or to display the settings menu.

7, 8) Adjust mix level of mixing input.

9, 10) Input for signals that may be mixed with LFO signal.

11, 12) Input for control voltage (CV).

13, 14) LFO synchronization is possible by sending a trigger signal to the reset input. The LFO waveform resets every time a trigger voltage signal is received.

15, 16) Trigger output.

17, 18) LFO output.

4) Technical information

Size - 14hp

Depth - 30mm

Power Usage – 80mA (+12V), 20mA (-12V)