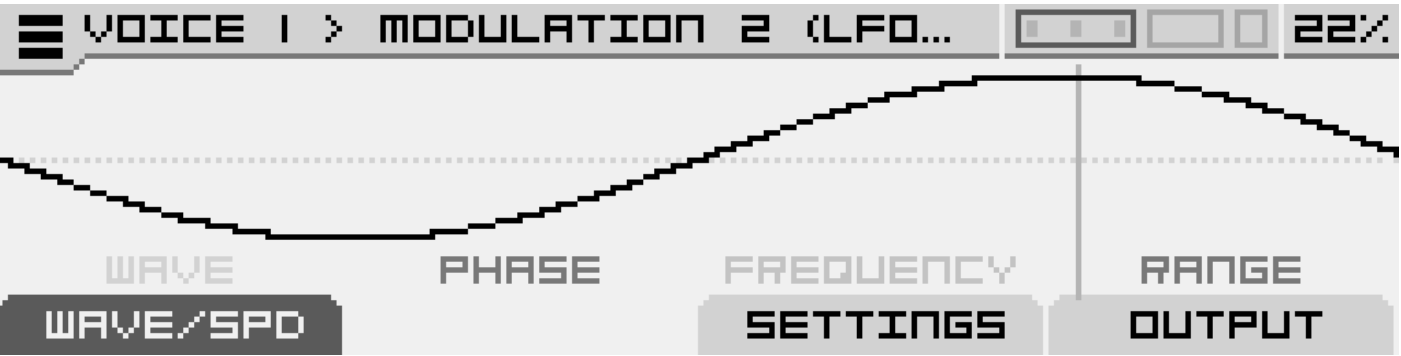# LFO Wavetable

This is a Low-Frequency Oscillator (LFO) that provides a wide range of waveforms through wavetables.

Main features of this LFO:

- Any wavetable can be used, allowing you to browse and select individual waves as modulation sources.
- In Free mode, multiple frequency ranges are available:
  - Slow: 0.0003 Hz to 2.22 kHz
  - Medium: 0.01 Hz to 81.9 Hz
  - Fast: 0.5 Hz to 4095 Hz
- Synchronization options allow the LFO to sync to an external clock signal.
- Syncing to the Voice's main oscillator frequency is possible, enabling FM-like modulation (0.25× to 24× the oscillator frequency).
- The LFO can be retriggered at the start by a trigger source (note, clock, or gate input).

Main screen of the Wavetable LFO

On any page of the Wavetable LFO, turn the Encoder to browse through wavetables. Click the Encoder to access the Browser and manually load a wavetable.

In the Browser:
- Press Button 1 to navigate up a folder level.
- Press Button 4 to enable Autoload, allowing real-time auditioning.
- Click the Encoder to open a selected folder or load a chosen wavetable file.

Wave/Speed Tab

This section allows you to configure basic LFO parameters:

Wave	Phase	Speed / Clock / Ratio	-

Select an LFO wave by navigating the wavetable.	Adjust the phase offset, shifting the starting point of the waveform.	Set the LFO frequency. This parameter adapts based on the synchronization mode: • Free mode: frequency in Hz • Clock mode: divisions or multiplications of the MIDI Clock • Ratio mode: multiples of the Voice's oscillator frequency	-

Settings Tab

This section defines the LFO's run mode and retrigger behavior. These settings cannot be modulated.

Mode	Trigger	-	-
Choose the LFO synchronization mode: • **Free**: The LFO runs independently. • **Clock**: The LFO syncs to the incoming MIDI Clock signal. • **Ratio**: The LFO syncs to the Voice's oscillator frequency, tracking its pitch (useful for FM, AM, and other audio-rate modulations).	Defines the source that resets the LFO phase. Options include: • Any Gate input • Voice trigger signal • MIDI Clock divisions/multiplications Only available in Free mode.	-	-

Output Tab

Modify the LFO signal before sending it to modulation targets:

Polarity	Gain	-	-

| Select LFO polarity:
 • Bipolar
 • Unipolar positive
 • Unipolar negative | Adjust the LFO output level (can be modulated). | - | - |

Revision #4
Created 8 February 2025 17:10:53 by Vincent
Updated 15 March 2025 18:50:35 by Vincent