Vowel

Contents

Description

Vowel is a speech synthesis and formant oscillator. It synthesizes and approximates the human voice by generating vowel sounds. These can be manipulated to provide deep low baritones, or high pitched squeaks. Two unique algorithms provide separate takes on this exciting synthesis method and allow for a multitude of talking synth sounds. What more can we say?

- Speech synthesis
- FOF synthesis
- Voltage controlled vowel sounds
- Two unique algorithms

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: 82mA
  - -12V: 4mA

Diagram

Functional Overview

1. Vowel

Controls the selected vowel, morphing in the following order:

A, E, I, O, U

CV Input: -5V to +5V added to knob position.

2. Frmnt

Controls the formants of the vowel algorithms, creating blends of male and female vocalizations.

CV Input: -5V to +5V added to knob position.

3. Freq

Controls the frequency of the output waveform.

CV input tracks 1V/Octave.

CV Input Range: -1.5V to 6.5V

4. Algo

Toggles between two different vowel synthesis algorithms.

Left: Vowel emulation with band pass filters.

Right: FOF style vowel emulation.

5. Out

Audio output

Range: 10Vpp