

VCO



Contents

Description	3
Installation	4
Specifications	4
Diagram	5
Functional Overview	6
1. V/Oct	6
2. Coarse	6
3. Fine	6
4. FM	6
5. SYNC	6
6. PWM	6
7. Triangle Out	7
8. Ramp Out	8
9. Pulse Out	9

Description

VCO is an analog voltage controlled oscillator based on the reissue of the legendary Curtis CEM3340 IC.

Many believe this chip to be the greatest sounding analog oscillator of all time. VCO features simultaneous triangle, sawtooth, and square wave outputs with linear FM, hard sync, and PWM capabilities. Accurate 1V/Oct tracking across 10+ octaves provides a huge frequency range for melodies or dramatic sweeps.

Add some analog warmth to your patches with VCO.

- CEM3340 based architecture
- Analog VCO
- 10+ octave range with accurate 1V/Oct tracking
- PWM control
- 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: 27mA
 - -12V: 24mA

Diagram



Functional Overview

1. V/Oct

1V/Octave CV Input.

Range: -10V to +10V

2. Coarse

Adjusts the coarse frequency of the oscillator.

Frequency range: 4.3Hz to 22kHz

3. Fine

Fine tunes the frequency of the oscillator.

4. FM

Linear FM input.

DC Blocked.

5. SYNC

Hard Sync input.

Falling Edge sensitive.

6. PWM

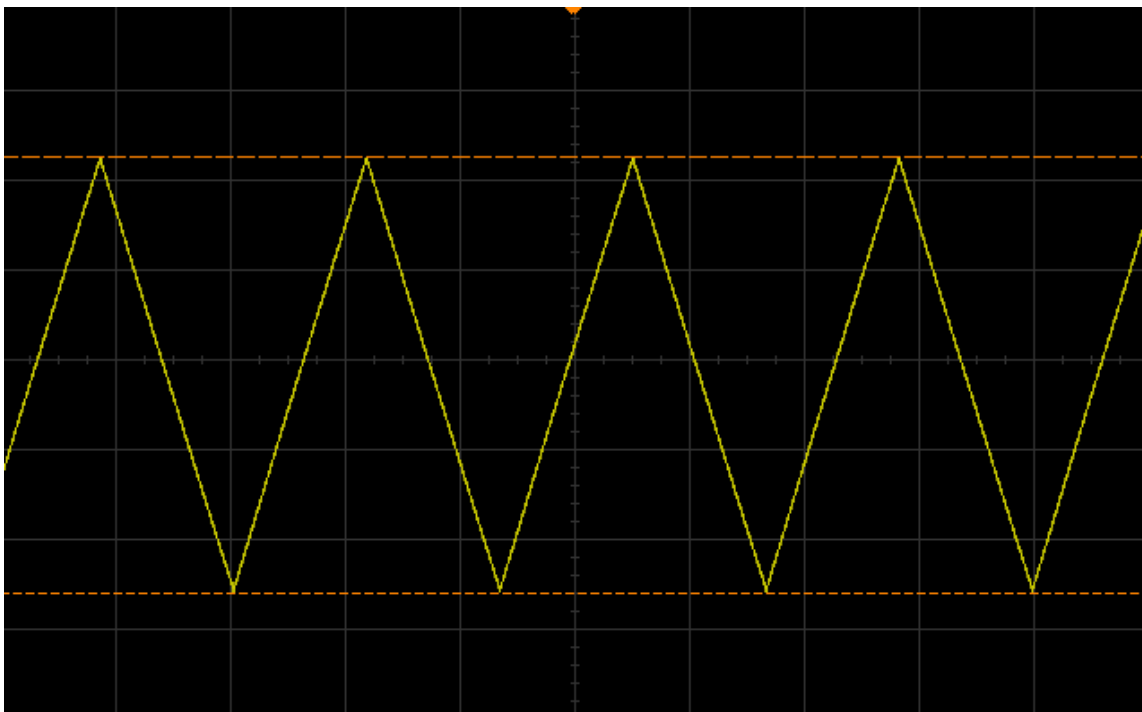
Pulse Width Modulation Input

0V to +5V input

Normalled to 2.5V with no input to set pulse width to 50%

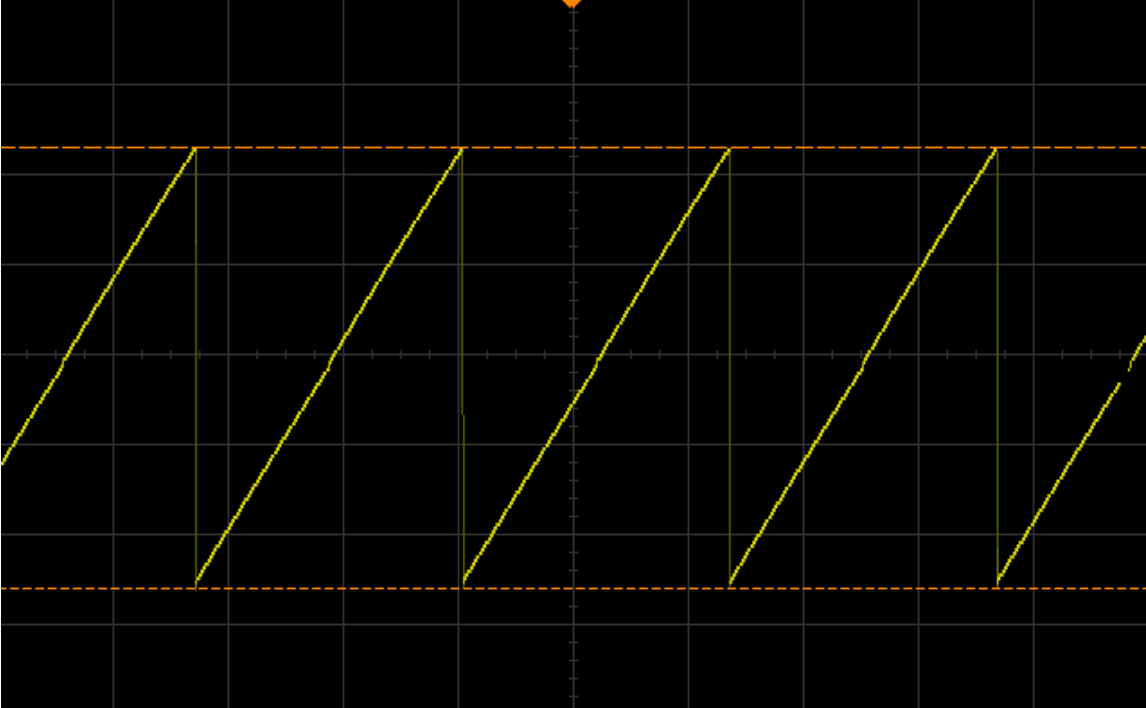
7. Triangle Out

10Vpp Triangle Waveform Output.



8. Ramp Out

10Vpp Ramp Waveform Output.



9. Pulse Out

10Vpp Pulse Waveform Output.

Pulse width controlled by PWM Input.

