



RFM 2VCO manual

module for Cherry Audio's Voltage Modular



2VCO MANUAL

*First of all, thanks for purchasing the 2VCO module...
I hope that it will provide you with many hours of modular-pleasure.*

i n t r o

As the name already implies, the 2VCO is a module that contains two oscillators. It has both an analog AND a digital oscillator on board. The oscillators are not really that different, but the digital version does not drift and has some sharper harmonics than its analog counterpart. At this point the analog and digital oscillators do not produce sound at the same time, but you'll find the analog/digital switch to choose between the two.

- 1** o s c i l l a t o r s
Use the switch to go from analog to digital or vice-versa
- 2** w a v e s
Each of the oscillators have the option to switch the led button on and 'dial' in Sine, Triangle, Sawtooth, Square and Noise waves, with level control for all of the waveforms to create exactly the sound that you're after. For Noise there's even a White or Pink version available...
- 3** d e t u n e
But actually the name 2VCO is not even about the analog or the digital version... What then?? Well.. each oscillator has a **DETUNE** knob that



made in the Netherlands





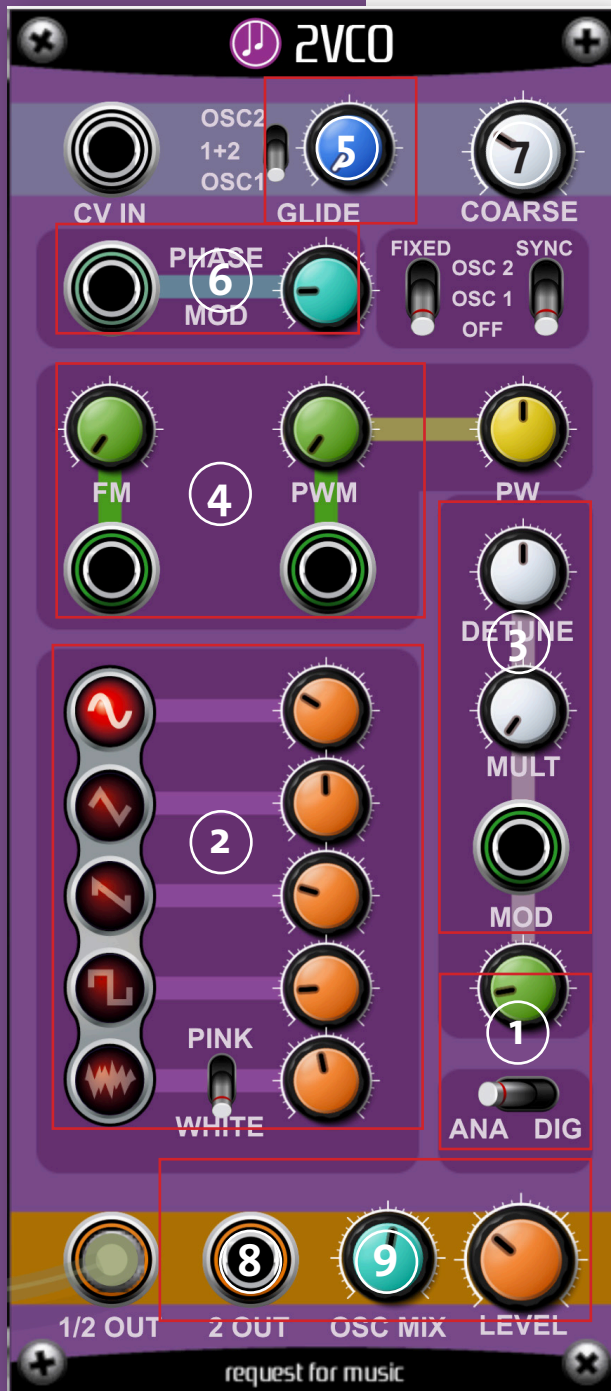
allows you to add an extra oscillator to the one you're working with for an extra fat sound.

More than that - connected to the **DETUNE** knob is a **MULT** (multiplier knob). With the DETUNE knob itself you can easily create that fat analog sound, especially when using the Sawtooth for instance.

The MULT knob multiplies the range of the DETUNE knob, so when you combine settings on both you can easily dial in an extra oscillator with one or more octaves above or below the 'main' oscillator.

Alt/option clicking on the DETUNE knob will reset to only one oscillator.

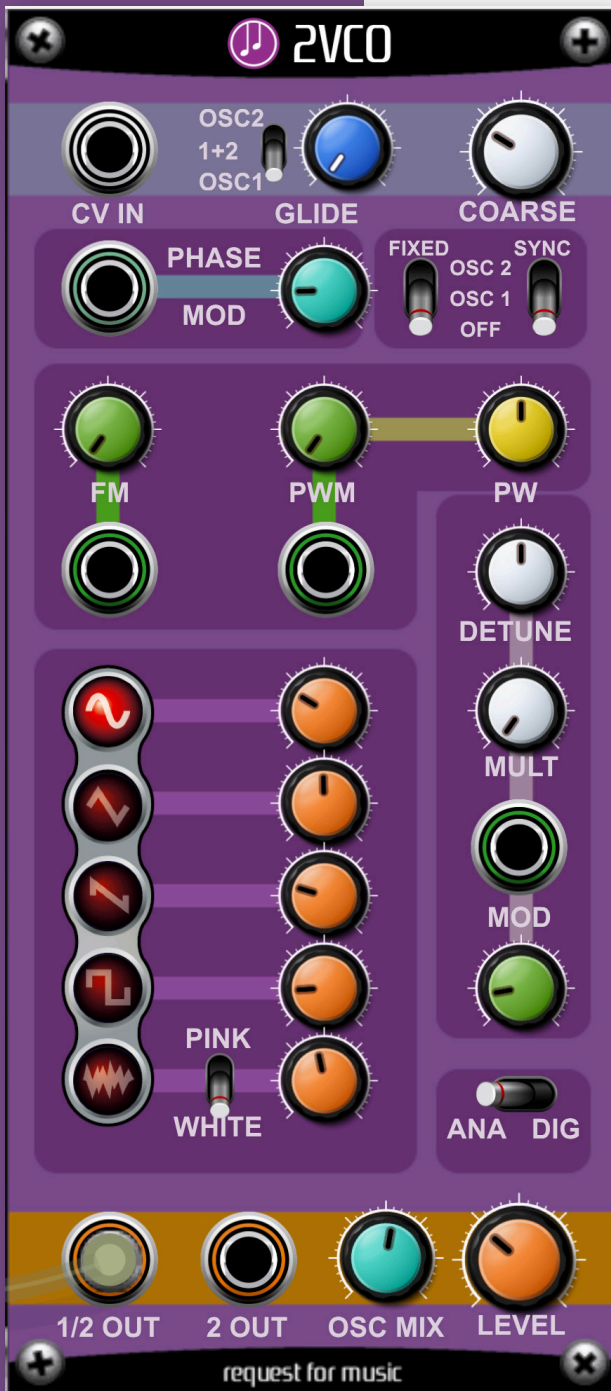
- 4 **m o d u l a t i o n**
Of course you can further find an input jack and knob to set the pulse width, as well as modulation jack and level setting for your square wave. For Frequency modulation like vibrato or audio rate modulation, there's also an FM input and level knob.
- 5 **g l i d e**
On top of that the 2VCO has glide/portamento on board as well. Next to the GLIDE knob there's a switch that allows you to have GLIDE on OSC1, both or OSC2.
- 6 **p h a s e m o d u l a t i o n**
Signal into this input and attenuated by the knob to the right, modulates the phase of oscillator 1. You can actually use OSC 2 output to modulate OSC 1. Or go really modular and put some audio rate signal in there.



7 t u n i n g
 The COARSE knob changes the overall tuning of your oscillators. Using whole numbers give you full octaves, while settings in between will take it out of tune. Alt/option click to reset when you're lost.... (If you combine the 2VCO with RFM-SEQ into the CV in, please turn the COARSE knob all the way down)

8 o u t p u t
 Finally there are 2 outputs available. By connecting only a cable to the 1/2 OUT output, sounds of both the 'straight' and detuned version are output through one cable. Connecting a cable to the 2OUT output, the detuned oscillator only outputs through that 2nd output. That way you can split the sound out to for instance two filter modules to further modify the sound.

9 m i x
 In case you need less volume for OSC1 or OSC2, you can find a mix knob that helps with just that. In the middle both oscillators are equally loud - turn from center to the right and oscillator 1 will get softer. Turn in the opposite direction for the opposite effect.. Logical right?



Used colours.

Standard inputs have white rings and are placed on a lightblue bar.

Modulation inputs have green rings, connected to parts with green bars.

Outputs have orange rings on an orange bar.

Frequency knobs like Coarse or Detune are lightgrey.

Modulation attenuators are green.

Pulse width setting is yellow.

Glide setting is dark blue.

Mix is light blue.

If I haven't forgotten anything, then now's the time to dial them knobs
 enjoy the sounds from the module
 have fun!!!