Dual VCA v1.2 - User Guide

This is the setup and user guide. The unit is designed for a monophonic Analog synthesizer.



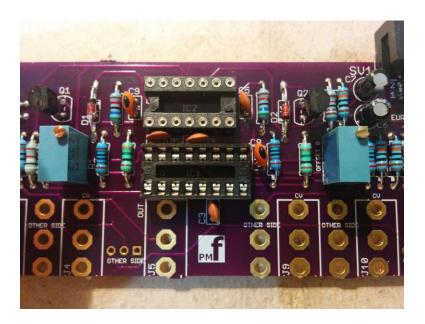
The module is designed and sized for **Eurorack** systems. You will need a 16-10 pin **Eurorack** power ribbon connector with -12/0/+12 which is connected to a synth power supply. You will also need a trimmer adjustment tool, a digital volt meter.

Calibration

If you bought PCBs or a kit, you should only need to calibrate the unit once. If you bought a pre-built and tested unit, you can skip this section. Power up the device.

- 1. Do this calibration procedure for each half of the DUAL VCA
- 2. Attach -ve probe of multimeter set to the 20V range to the GND pin of the power header or the ground pin of one of the jacks.
- 3. Disconnect ALL jacks

- 4. Turn the gain control pot to maximum
- 5. Plug a +5.00V control voltage into one of the CV jacks. This can come from a keyboard controller or other source. Note this is plugged into a CV socket not a SIGNAL IN socket.
- 6. Measure the DC voltage at the OUTPUT jack (of the relevant half of the DUAL VCA) with the +ve probe of the meter.
- 7. Turn R1 (VCA A) or R14 (VCA B) in either direction until the voltage meaured is +0.00V



Operation

- 1. The CV jack will in general be driven by an ADSR curve generated during the time that a GATE signal is applied.
- 2. The second CV jack can be used by another source to control the gain of the VCA.
- 3. The Gain pot is used to set the initial Gain when the CV is 0.
- 4. The AC coupled input can be used to remove the DC part of an audio signal. The DC and AC jacks are exclusive-OR switched together with the DC jack having override priority.
- 5. You can experiment with the output of your envelope shapers to determine whether they work best with the AC or DC coupled input of this VCA.