

## DC-2e envelope generator tricks

The DC-2e features an AR envelope generator, but sometimes you may want more control for faster attack and variable decay effects. There are several patches you can use, making use of the voltage controlled mixer as a VCA.

You can use the MIX CV input as a VCA with external Gate or Envelope input. Here's how to do it.

- 1) Pull up MIX to cancel OSC 2.
- 2) Patch an external Gate, Envelope, or LFO to the MIX CV input.
- 3) Tune OSC 1 as needed.
- 4) Adjust the MIX knob for best dynamic VCA effect. (May need to flip the CV IN Voltage Range switch behind the Expander module)

Since OSC 2 is cancelled, the voltage controlled mixer will crossfade OSC 1 with silence. It can make faster envelopes than the main AR envelope built in to DC-2e. You may need to adjust the filter settings so the filter self-oscillation doesn't babble on top of the intended white space. Also try pulling up the SLIDE knob for a basic clean sound from OSC 1.

There's another patch to get decay envelope effects with the DC-2e. It works because the Gate In triggers the LFO/SWEEP effect.

- 1) Patch a CV-Gate controller to DC-2e's CV1+2 and Gate In
- 2) Pull up MIX knob
- 3) Patch Sweep Out to Mix In
- 4) Turn SWEEP fully clockwise
- 5) Turn LFO toward the Fast setting
- 6) Turn TEMPO fully counterclockwise, to stop the internal tempo generator.
- 7) Pull up FILTER to mute the VCF self-oscillation
- 8) Tune OSC 1 as required

Now when you play notes with the external Gate in, the LFO Sweep will act like a conventional decay envelope with fast attack, and release time variable by LFO knob. As before, you may need to adjust the filter settings to cancel its self-oscillation. Also, for this to work, both of the switches in back of the Expander should be set toward the same direction ... both up, or both down.