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CURVATURE →

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Edgecutter
Visual Envelope



TiNRS Edgecutter Manual

Introduction

TiNRS Edgecutter is our ADSR envelope that shows you what it is doing. The ATTACK, DECAY, SUSTAIN, RELEASE and CURVATURE parameters all have CV inputs. Each phase of the ADSR provides either a pulse at the end of the phase or opens the gate for the duration of the phase. Edgecutter provides you with more in-depth timing for your sound. All our envelopes are sent out S.W.A.L.K.

Installing the module

- 1) Power down your system.
- 2) The red stripe on the power cable and the red stripe label on the module indicate the minus 12 volt.
- 3) Connect the included power cable between the back of the module and your power strip.
- 4) Screw the module into place.
- 5) Power up your system.

Getting started

- 1) Connect an ENVELOPE output to your favourite modulation target.
- 2) Connect a gate signal to the GATE input or press the TRIGGER button.
- 3) Adjust ADSR and CURVATURE to taste.
- 4) Enjoy!

1. GATE input

Patch in a gate signal to start and stop your envelope. If nothing is patched in to the GATE input, it is normalled to the gate signal on the powercable.

2. RETRIG input

Use the RETRIG input to restart the A/D cycle when the gate is open.

3. VELOCITY input

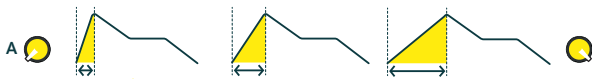
You can use the VELOCITY input to scale the ENVELOPE outputs. The level of the VELOCITY input is sampled during the first milliseconds after the envelope has been triggered.

4. TRIGGER button

Push the TRIGGER button to manually start the envelope and release the button to stop.

5. ATTACK parameter

Use the ATTACK knob and input to alter the length of the attack phase. The input and the knob position are summed.



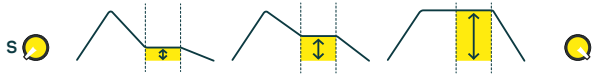
6. DECAY parameter

Use the DECAY knob and input to alter the length of the decay phase. The input and the knob position are summed.



7. SUSTAIN parameter

Use the SUSTAIN knob and input to alter the level of the sustain phase. The input and the knob position are summed.



8. RELEASE parameter

Use the RELEASE knob and input to alter the length of the release phase. The input and the knob position are summed.




9. SPEED button


Press the SPEED button to select short or long envelope time.




10. MODE button

Press the MODE button to select one-shot, gated or repeat mode.

 One-shot mode runs through the entire envelope using only a short pulse as a gate signal.

 Gated mode is our regular envelope mode: the envelope will progress through the attack and decay phase, wait at sustain level until you lower the gate and sink back to zero.

 Repeat mode replaces the sustain phase of the gated mode with a cycled A/D pattern.

 = gate open

11. CURVATURE parameter

Use the CURVATURE knob and input to control the shape of the envelope that is produced on the CURVED output. The input and the knob position are summed.



12. PHASE outputs

Our Edgecutter has an output for each phase of the ADSR. As a group these PHASE outputs have two different modes. TRIGGER mode pulses each output at the end of its ADSR phase and GATE mode keeps each gate open for the duration of its ADSR phase.

Selecting PHASE output mode

Press and hold the MODE button until a SPEED button LED starts blinking. Then press the SPEED button to switch between modes:



Press and hold the MODE button until the LEDs stop blinking. Edgecutter will remember your selected mode until you change it again.

13 & 14. ENVELOPE outputs

Edgecutter gives you a linear and a curved envelope output. The linear envelope is based on straight line segments, while the curved one is based on curves. Edgecutter continuously runs these two envelopes in parallel and gives you the corresponding outputs. The curvature knob only influences the curved envelope. Both outputs give you a signal between 0 and 5 volt.

