2hp — EG

- [Manual PDF](#)

[EG 2HP Envelope Generator Manual (PDF)](#)

Creative EG Modulation Techniques for Eurorack Synthesis

Based on your attached EG module manual, here are deep-dive ideas for using this compact, powerful envelope generator to create a huge variety of sounds—focusing on **distorted percussive hits**, **crazy dubstep/drum & bass basslines**, and **haunting ambient pads**.

1. Distorted Percussive Sounds

Key technique: Use ultra-fast attack & decay times, extreme envelope shapes, and dynamic CV modulation.

- **Set Attack and Decay Fully CCW:**
  Dial both knobs hard left for the snappiest transients (attack/decay ~3ms).
- **Patch into Audio-Rate Destinations:**
  Send the envelope OUT to a filter or VCA controlling a drum oscillator—modulate a wavefolder or even FM input for a noisy *clap* or *kick* transient.
- **CV Over Attack/Decay for Glitch:**
  Feed a stepped random CV or trigger sequence into ATTACK CV

or DECAY CV. This will shift the shape each time, giving clicky, shifting percussion.

- **Switch Response Toggle:**
  Flip between **linear** for metallic/sharp clicks or **exponential** for "punchier," curved percussive envelopes.
- **Amp for Distortion:**
  Crank AMP knob or overdrive a following stage for envelope-based gain distortion.

Bonus tip: Patch TRIG to a fast LFO or burst generator for machine-gun, laser zap or metallic sounds.

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2. Crazy Dubstep/Drum & Bass Basslines

Key technique: Use the envelope to animate a filter, oscillator FM, or VCA for *moving*, *growling* modulation.

- **Modulate Filter Cutoff:**
  OUT → LP/HP filter cutoff for classic "wobble."
  Use DECAY CV modulation from a sequencer/LFO for variable note lengths.
- **Exponentially Shaped Envelope:**
  Set toggle to EXPO for aggressive, deep sweeps.
- **Dynamic Modulation:**
  Vary ATTACK or DECAY with CV signals from sequencer accent tracks for ever-changing bass movement.
- **Layer Multiple Destinations:**
  Use stackcables/mults to send envelope OUT to filter **and** VCA—and maybe an FM input—giving huge moving tonal complexity.
- **Manual Performance:**
  Sweep AMP or decay times by hand in performance for live "wobble" control.

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3. Haunting Atmospheres & Pads

Key technique: Exploit super-long envelopes, slow modulations, and shape morphing.

- **Exaggerated Envelope Times:**
  Set ATTACK and/or DECAY far right for 10+ second swells and fades.
- **CV Morph Between Shapes:**
  Slowly LFO the ATTACK/DECAY CV, so the pad subtly evolves in amplitude shape.
- **Manual or Automated Toggle Swaps:**
  Switch between linear/exponential mid-note (or "flicker" with a gate/solenoid if DIY-hacked), for eerie volume curves.
- **Amplitude as Depth Control:**
  Set AMP low for "fade in/out" ghostly effects, or up for enveloped drones.
- **Layer With Reverb:**
  EG isn't a sound source, but modulates other layers—long envelopes into dark filters, or VCA opening noise or soft oscillators for classic 'clouds.'

Extra General Tricks: - **Velocity Sensitive Percussion:** Use a velocity CV from a MIDI-CV module to ATTACK/DECAY/AMP for expressive playing. - **Double-Envelope** with two EGs for more stages (patch one OUT to the other's TRIG for multi-segment shapes).

> **Tip:** With the EG's compact form, pairing it with sequential switches, logic, or CV-addressed modules multiplies its creative use.

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