

Alright Devices

 T-Wrex

User's Manual

Version 1.0





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## Description

T-Wrex is an analog bitcrusher and decimator!

T-Wrex has two separate sections: STOMP is a bitcrusher and CHOMP is a decimator. You can sweep each effect from imperceptible all the way to rumbly, growling sonic debris. Use each section's voltage-controllable dry/wet circuit to find the perfect balance of harmony and havoc!

At the core of each section is a high-speed, low-leakage analog sample & hold circuit. The bitcrusher's SYNC input is ORed with its internal s&h trigger which steps the output voltage. Mult IN to SYNC to force a static waveform, or use another VCO for the bitcrusher equivalent of hardsync!

The decimator's internal analog VCO controls its sample rate, but you can override it by patching your own signal to the SAMPLE input. Use complex waveforms to flavor your decimation (spicy!), or even use subaudio-rate signals for a traditional helping of sample & hold!

T-Wrex provides an attenuverter on each CV input for your wiggling convenience. Crank the CHOMP attenuverter fully counterclockwise to make the decimator's internal VCO track its CV at 1V/octave!



## Features

- Fully analog bitcrusher and decimator
- Dry/wet control for each effect
- CV input with attenuverter for each effect and dry/wet
- Bitcrusher sync trigger input
- Decimator sample trigger override
- Decimator can track CV at 1V/octave
- Each section can be used as a sample and hold
- Skiff friendly

## Specs

- +12V / 80mA, -12V / 70mA
- 12HP width, 30mm depth

## Panel



### A. STOMP!

Depth of bitcrushing.

### B. CHOMP!

Depth of decimation.

### C. DRY/WET controls

Crossfade linearly between the unprocessed and processed signal for each effect.

### D. CV attenuverters

Scale and invert the CV inputs.

### 1. INs

Signal inputs for each effect. The decimator input is normalized to the bitcrusher output.

### 2. Effect CV inputs

Voltage control of bitcrushing and decimation. When the CHOMP attenuverter is fully counterclockwise, the internal VCO controlling the decimator's sample rate will track its CV at 1V/octave.

### 3. Trigger inputs

Trigger each section's sample & hold core. The SYNC input is ORed with the bitcrusher's internal trigger, while the SAMPLE input overrides the decimator's trigger.

### 4. DRY/WET CV inputs

Voltage control of each effect's DRY/WET mix.

### 5. OUTs

Signal outputs for each effect.



## Support

For news and info, visit [alrightdevices.com](http://alrightdevices.com) and follow [@alrightdevices](https://twitter.com/alrightdevices) on Twitter. For technical support or other questions, contact [tyler@alrightdevices.com](mailto:tyler@alrightdevices.com).