

# worng Electronics – Vertex

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- [Manual PDF](#)
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\*\*WORNG Electronics Vertex Cheat Sheet\*\*

[Download the Manual (images above, not direct PDF)](#)

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## ### Quick Reference

### #### Overview

- \*\*Vertex\*\* is a high-quality, voltage-controlled analog stereo VCA.
- Uses 4 VCAs (2 linear, 2 exponential: per channel) for advanced sound shaping.
- 8hp, 25mm depth.
- All analog, DC coupled (handles CV and audio).

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## ### Panel Controls

### #### Knobs

Control	Function
Gain	Baseline gain for both L+R VCAs (manual "drone" control).
Gain CV Amt	Attenuates (+/-) incoming Gain CV. Fully CCW = -100%, CW = +100%.
Skew	Balances stereo image. Noon = even. CCW = louder left, CW = louder right.
Skew CV Amt	Attenuverts Skew CV; noon = 0. CW = +, CCW = -.

### #### Inputs

Jack	Details
CV In	Voltage-controlled inputs for Gain and Skew.

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**Gain CV**	Controls gain of both L+R channels (affected by Skew CV)
**Skew CV**	Modulates Skew control (attenuated by Skew CV)
**L In**	Left audio/CV in; normalled to R if R unpatched
**R In**	Right audio/CV input.

#### #### Outputs

Jack	Details	Type
**L Out**	Left processed signal	Audio or CV
**R Out**	Right processed signal	Audio or CV

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#### ### Indicator LEDs

- \*\*L/R LEDs\*\* show level of control voltage sent to each VCA (combined)

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#### ### Voltage Ranges & Signal Handling

- \*\*VCAs cap at unity gain\*\* – won't amplify above input level, even if CV is high
- Overdriving CV (CV > needed for unity) “clips” envelopes, changing character
- All CVs are analog, work at audio rates (use for AM/panning/LFOs/oscillators)

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#### ### Example Patch Recipes

##### \*\*1. Stereo Tremolo:\*\*

- Stereo in to L/R inputs, output L/R.
- Gain at noon to 3:00.
- LFO to Skew CV, Skew CV Amt ~1:00.
- Result: Moving/panning tremolo FX.

##### \*\*2. Voltage-Controlled Panning:\*\*

- Mono in to L input, R input unpatched.

- Gain full CW.
- Adjust Skew or send Skew CV for voltage-controlled panning.
- Pro tip: Envelope to Gain CV for shaped panning without changing

### \*\*3. Dual VCAs for CV or XY Processing:\*\*

- Patch independent CVs to L+R inputs/outputs, one envelope to Gain
- Use Skew for balancing/offset.
- Works well for oscilloscope XY or laser modulation.

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### ### Panel Cleaning

- Matte black panel can show fingerprints; clean with soft cloth &

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### ### Reference

- All I/O is \*\*3.5mm mono jacks\*\* (Eurorack standard).
- To use TRS stereo, break out to mono L/R.
- \*\*Depth:\*\* 25mm
- \*\*HP:\*\* 8hp

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[Generated With Eurorack Processor] (<https://github.com/nstarke/euro>)