

Doepfer — A-130-1

- [Manual PDF](#)
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[Doepfer A-130/A-131 VCA Manual \(PDF\)](#)

Doepfer A-130 / A-131 VCA — Cheat Sheet

Overview

- **A-130:** Linear voltage-controlled amplifier (VCA), best for control voltages.
- **A-131:** Exponential VCA, best for audio signals.
- Both modules are otherwise functionally identical (jacks and knobs).

Controls

Label	Function	Range
Gain	Overall gain (offset) control	0–10
CV2	Attenuator for CV 2 (modulates amount of CV2 applied)	0–10
In 1	Attenuator for Audio In 1	0–10
In 2	Attenuator for Audio In 2	0–10

Label	Function	Range
Out	Attenuator for output signal (audio level out)	0–10

Inputs & Outputs

Jack	Function	Voltage Range
CV1	Control Voltage In 1	0–+5 V (lin/exp)*
CV2	Control Voltage In 2	0–+5 V (lin/exp)*
Audio In 1	Audio Input 1	Typical line lvl
Audio In 2	Audio Input 2	Typical line lvl
Audio Out	Audio Output	+/-5 V (typical)

- *CV1 and CV2 are summed; +5 V = max amplification, 0 V = closed. CV2 has an attenuator, CV1 does not.*
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Response Curves

- **A-130:** Linear response (best for control voltages).
 - **A-131:** Exponential/logarithmic response (best for audio for natural loudness perception).
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Usage Tips

- **For audio signals:** Use exponential mode (A-131).
- **For CV/modulation:** Use linear mode (A-130).
- **Gain Control:** At 0, no signal passes (unless CV present). Increase for baseline amplification or when using bipolar CV sources.

- **CV Inputs:** Bring envelope generators or LFOs to CV1/CV2. For maximum VCA response use up to +5 V.
 - **Distortion:** If output distorts, lower In 1/In 2 attenuators.
 - **Output Level:** Adjust Out attenuator to set final module volume.
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Patch Examples

- **ADSR to VCA:** Envelope shapes volume/dynamics of sound source.
 - **LFO to VCA:** Amplitude modulation for tremolo or AM effects.
 - **Keyboard CV to VCA:** Keyboard tracking for dynamic response based on pitch.
 - **Inverse Tracking:** Use a voltage inverter before the CV input.
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Patch Sheet Tip

- Use the front panel diagrams to log your settings and favorite patches with marker.
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