

Bubblesound — HexVCA

- [Manual PDF](#)
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[HEXvca Manual PDF](#)

HEXvca (Bubblesound) Cheat Sheet

Overview:

The Bubblesound HEXvca is a 7HP eurorack module featuring 6 independent VCA channels with flexible mixing and voltage-controlled features. Suitable for both audio and CV signal processing.

Quick Start

- **Channels:** 6 independent VCAs
 - **Mix Outs:** 3 mix outputs (1-3, 4-6, and all 1-6)
 - **CV Response:** Switchable per channel (Linear/Exponential)
 - **CV Normalization:** Jumpers on the back to chain CV control over multiple VCAs
 - **Expansion:** Back header allows for ribbon cable connection with HEXar (triggers VCAs), future-proofed audio input header for cableless connection
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Controls

Front Panel

- **(Assumed Typical) Per Channel:**
 - **Input Jack:** Patch in your audio or CV signal
 - **CV In Jack:** Patch control voltage (envelope, LFO, etc.) here
 - *Typical voltage range:* 0V (off) to +5V (unity/max VCA response)
 - **CV Response Switch:** Toggle between Linear and Exponential VCA behavior
 - **Output Jack:** VCA output for each channel
- **Mix Outputs:**
 - **1-3 Mix Out:** Sums channels 1, 2, 3
 - **4-6 Mix Out:** Sums channels 4, 5, 6
 - **1-6 Mix Out:** Sums all six channels

Rear Panel / Internal Jumpers

- **CV Normalize Jumpers:** Set for cascading gate/EG control between VCAs
- **Ribbon Cable Header:** Connect to HEXar for gate/trigger control (no patch cables needed)
- **6-pin Audio Input Header:** For future expansions

Signal & Voltage Reference

- **All VCAs are DC-coupled:** Accept audio and CV signals
- **CV In Range:** 0–5V (typical – check for max input in module test)
- **VCA Response:**
 - **Linear:** Best for CV and control purposes
 - **Exponential:** Ideal for audio dynamics (musical VCA behavior)

Power & Mechanical

- **Width:** 7HP
 - **Depth:** 30MM
 - **Power Consumption:** +50mA / -45mA
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Inputs & Outputs Reference

Jack	Function	Typical Voltage Range
Channel IN (1-6)	Audio or CV input	-10V to +10V (typical)
Channel CV IN (1-6)	Voltage control over VCA gain	0V to +5V
Channel OUT (1-6)	Individual channel output	-10V to +10V
1-3 MIX OUT	Mix of channels 1, 2, 3	-10V to +10V
4-6 MIX OUT	Mix of channels 4, 5, 6	-10V to +10V
1-6 MIX OUT	Mix of all 6 channels	-10V to +10V

How To Use

- Patch audio/CV sources to Channel IN jacks.
- Patch CV (envelope, LFO, step) sources to Channel CV INs.
- Select desired VCA response (linear/exp) per channel.
- Take outputs from individual OUTs or from MIX OUTs as needed.
- For advanced chaining, use rear jumpers/ribbon for CV normalization or expansions.

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