Bored Brain — EQx5

📄 [eqx5 Manual PDF](#)

eqx5 (boredbrain) - Cheat Sheet

Quick Overview

eqx5 is a 5-band voltage-controlled equalizer (Eurorack format), providing CV control and manual adjustment over each band and overall output level. Ideal for dynamic spectral shaping, filter sweeps, coloring, and stereo or feedback applications.

Controls Reference

Sliders: Frequency Band GAIN (per band: BASS, LOW-MID, MID, HI-MID, TREBLE)

- **Range:** -10 dB to +10 dB (center is flat)
- **Function:** Adjusts boost/cut for each band.

Sliders: CV Amount (per band: blue slider)

- **Range:** -10 dB to +10 dB control via external CV.
- **Function:** Sets sensitivity of CV input.
- **Sum:** Manual slider + CV+slider.

SLIDER: LEVEL

- **Range:** -∞ (full down/off) to +6 dB (full up)
- **Function:** Output volume.

Inputs & Outputs

Audio

- **IN L / IN R:**
- **Type:** Mono (left) or Stereo (both)

- **Impedance:** 100k ohms

- **OUT L / OUT R:**

- **Type:** Stereo output
- **Level:** Eurorack standard

CV Inputs (per band)

- **CV1 (BASS), CV2 (LOW-MID), CV3 (MID), CV4 (HI-MID), CV5 (TREBLE)**
- **Voltage Range:** -5V to +5V = -10dB to +10dB boost/cut
- **Recommended Range:** ±5V (higher voltages will be clipped internally)
- **Function:** Modulates band gain, scaled by blue CV slider.

Internal Signal Path

- **All bands** are fully parametric and analog, offering up to ±10dB cut/boost.

- **Bands:**

  1. **BASS** (75Hz, 1.2 Q)
  2. **LOW-MID** (350Hz, 1 Q)

3. **MID** (1100Hz, 1 Q)
4. **HI-MID** (3500Hz, 1 Q)
5. **TREBLE** (9000Hz, 1 Q)

- **CV IN** modulates band in addition to the manual slider.

Usage Basics

1. **Patch audio** into IN L (mono) or IN L+R (stereo).
2. **Adjust each frequency band** using the main sliders.
3. **Patch modulation (LFOs, Envelopes, etc.)** into any CV IN jack to control boost/cut for that band.
4. **Set CV amount** with blue CV slider: zero = no CV, up/down matches manual slider scale.
5. **Set output level** with LEVEL slider.
6. **Patch OUT L/R** to next module or main output.

Voltage Reference Table

Input/Output	Range	Purpose
IN L / R	Audio (modular)	Signal input
OUT L / R	Audio (modular)	Equalized output
CV1–CV5 (per band)	-5V to +5V	Band boost/cut

Notes

- **No other controls:** This module uses only sliders.
- **Stereo/dual mono:** Can use with mono or stereo, or process two mono signals in parallel (no cross-talk).
- **CV Summing:** CV is added to manual; use both for maximum effect.