

GraphEQ Reference Manual v1.0

for Windows and Mac

Reference Manual by killihu

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Plugins, skins and other resources for computer-based audio production

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This book has been inspired by the Ableton Live Reference Manual, with the aim of making it easier for Ableton Live users to read.

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Main information

1.1 Plugin Overview

GraphEQ is a 31-band stereo graphic equalizer. It provides independent gain control at every ISO standard 1/3-octave center frequency from 20 Hz to 20 kHz, paired with a shared bandwidth (Q) control, an adaptive "proportional Q" mode inspired by classic analog console EQs, and independent high pass and low pass filters with selectable slope up to 96 dB/octave.

- Band frequencies (Hz):

20, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000, 10000, 12500, 16000, 20000

- Variable band gain range (dB):

-6/+6, -12/+12, -18/+18

- High Pass Filter range (Hz):

20, 250

- Low Pass Filter range (Hz):

20000, 2500

- Filter slope (dB/Oct):

12, 24, 36, 48, 72, 96

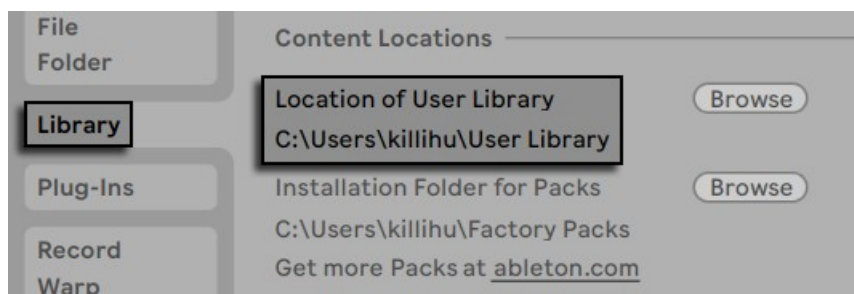
1.2 System Requirements

- Live Version: 10 / 11 / 12 with Max for Live
- Operating System: Windows, Mac

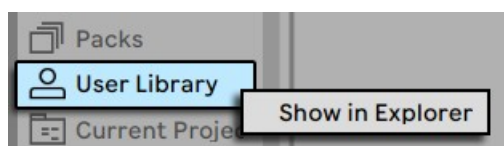
1.3 Installation Instructions

Unzip the ZIP file and copy the plugin AMXD file to your User Library folder. There are two ways to find where your User Library is located:

Go to Preferences – Library – Location of User Library



Or [right-click] on the User Library in the Browser – Show in Explorer

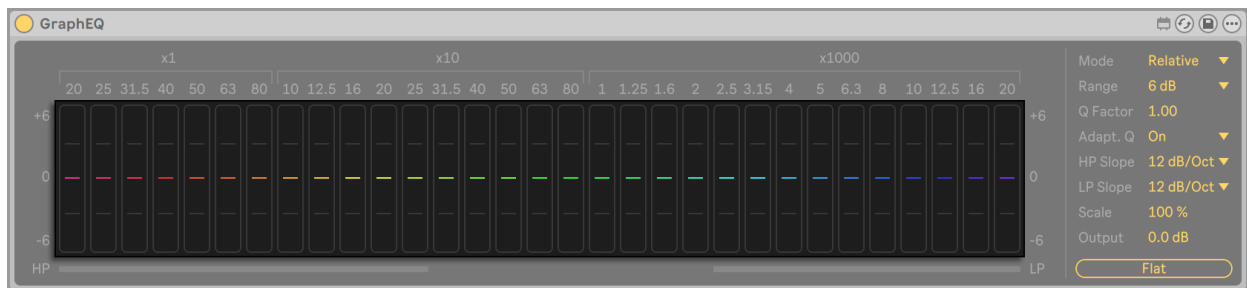


Controls

2.1 Band Gain

Adjusts the amount of boost or attenuation applied to the bands.

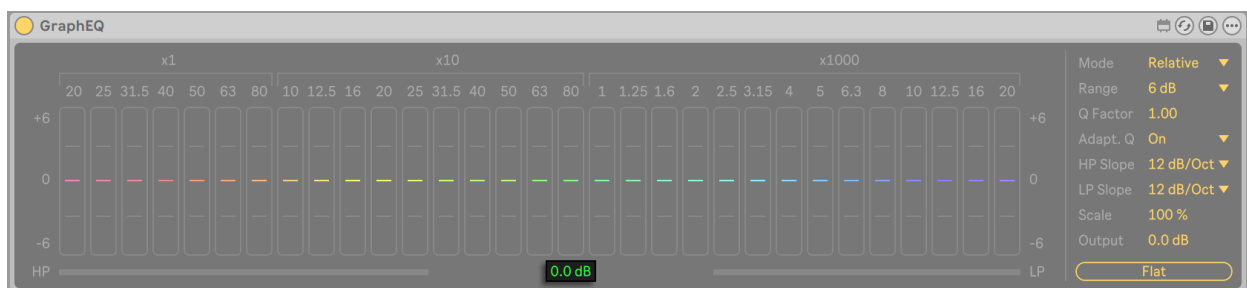
Each band's fader has a different color to make it easier to use, following a color progression based on the frequency of the bands.



2.1.1 Band Gain Value

The gain value for the band located under the mouse pointer is displayed at the bottom of the device. This allows for precise adjustment of each band.

This control is for informational purposes only and cannot be manually modified.



2.2 HP/LP Filters

The controls for adjusting the high pass and low pass filters are located on the bottom of the device. The adjustment is stepped, corresponding to the bands. The color and position relative to the bands indicate the value of these controls.

The slope for each filter can be set using the controls located on the right side of the device.



2.3 Fader Mode

Sets the mode for mouse behavior when changing band gain.

- Absolute: Click to modify the gain value to the mouse pointer position.
- Relative: Click and drag to modify the gain value from its current position.

2.4 Range

Set the maximum gain range for all bands to one of the following values:

- 6 dB/+6 dB
- 12 dB/+12 dB
- 18 dB/+18 dB

2.5 Q Factor

Adjusts the resonance or bandwidth for all bands in a range of 0.25 to 4.

2.6 Adaptive Q

When enabled, the Q factor of all bands becomes narrower as the amount of boost or cut increases, resulting in a more consistent output volume.

This behavior is based on classic analog EQs.

2.7 Scale

Master curve-depth control. Scales the entire 31-band curve up or down around 0 dB without touching individual sliders.

100% reproduces the curve exactly as set; 0% flattens the EQ entirely; 200% doubles every band's deviation from unity.

Moving from 100% to 200% always adds up to one full range's worth of extra gain, so a band already at its range limit can reach twice that value at the scale extreme. This is an intentional headroom for creative use allowance.

2.8 Output

Boosts or attenuates overall output by up to 18 dB.

2.9 Flat

Snaps all bands to 0 dB.

Channel-independent Processing

3.1 L/R and M/S

The device does not have the feature to process different channels individually (Left / Right / Mid / Side), but it is enough to use a Live Effects Rack and the Utility device for that purpose.

Create two Chains within the Effects Rack and place instances of Utility and GraphEQ in each one. Then configure the Utility devices so that one only allows the signal from the Left or Mid channel, and the other the signal from the Right or Side channel.

