eMO / Q4

4-BAND TOUCH PARAGRAPHIC EQ

USER GUIDE

INTRODUCTION

Welcome

Thank you for choosing Waves. In order to get the most out of your Waves processor, please take the time to read through this manual.

In conjunction, we also suggest you become familiar with www.wavesupport.net. There you will find an extensive answer base, the latest tech specs, detailed installation guides, new software updates, and current information on licensing and registration.

By signing up at www.wavesupport.net, you will receive personalized information on your registered products, reminders when updates are available, and more.

About Waves eMo Q4

Waves eMo Q4 is a simple and effective 4-band paragraphic equalizer. eMo Q4 provides up to four bands of equalization per channel, configurable as either two independent mono equalizers or a precisely ganged stereo equalizer. eMo Q4 also provides a visual representation of the EQ curve that you can adjust by 'dragging' the curve itself, so you do not have to rely on conventional controls. If you know what EQ settings you want, however, you can simply enter the numerical values to achieve the same result.

Like all members of the eMo family, eMo Q4 is touch-compatible, has zero latency, and is very light on CPU without compromising the sound quality.

Components

eMo Q4 includes two components:

• eMo Q4 Mono

• eMo Q4 Stereo

Features

• Four independent filters

• Stereo component: L/R filters can be controlled independently or linked

• Zero latency

• Light CPU consumption

• Touch-compatible

INTERFACE

1. Yellow Curve
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3. Filter Markers
4. Filter On/Off Switch
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12. WaveSystem Toolbar

* Stereo component only

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CONTROLS

Because both left and right audio channels are displayed in a single window, the left and right equalization curves are represented by yellow and blue lines, respectively.

Yellow Curve: Graphically represents the state of the left or mono channel filters.

eMo Q4 Stereo: Left channel

eMo Q4 Mono: Mono channel

Blue Curve: Graphically represents the state of the right channel filters.

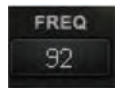eMo Q4 Stereo: Right channel

eMo Q4 Mono: None

• **Filter ON/OFF**: Turns the corresponding filter (1-4) on or off.

Options: On, Off

Default: On

FREQ: Determines the frequency of the corresponding filter (1-4).
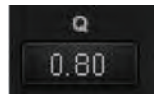
Range: 16 to 21357 Hz

Filter 1 default: 92 Hz

Filter 2 default: 351 Hz

Filter 3 default: 2890 Hz

Filter 4 default: 10992 Hz

Q: Determines the Q value for Filters 1-4. The Q value is inversely related to the width of the frequency range for a given filter: the higher the Q value, the narrower the affected band of frequencies.

Range: 0.05 to 6.50*

Default: 0.80

* Low- and high-pass filter types have a fixed Q value of 12 dB per octave.

TYPE: Determines the filter type.

Options: Parametric (Bell), Low or High Shelf, Low or High Pass*, Low or High Resonant Shelf*

Default: Parametric (Bell)

* Filters 1 and 4 only

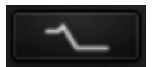Clicking the TYPE icon will switch the filters in the following order:

Parametric (Bell): Filters 1-4

Low or High Shelf: Filters 1-4

Low or High Pass: Filters 1 and 4 only

Low or High Resonant Shelf: Filters 1 and 4 only

GAIN: Determines the gain of a given filter. Switch the knob or type in the desired value.

Range: -18 to 18 dB

Default: 0.0 dB

Filter Marker: Combines the Filter switch and Frequency controls into one click-and-drag marker.

Filter markers are numbered per the corresponding filter. In the Stereo component, filter markers also indicate the corresponding channel, L or R. For example, marker 1L corresponds to Filter 1 on the Left channel; marker 2R corresponds to Filter 2 on the Right channel; and so on.

Options: On, Off

Default: On

L/R Link Switch (Stereo component): Allows independent or linked control over the left and right output.

Options:

  Linked; graph shows Left channel markers

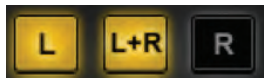 Linked; graph shows Right channel markers

  Independent; graph shows Left channel markers

  Independent; graph shows Right channel markers

Default:

  Linked; graph shows Left channel markers

GAIN L and GAIN R: Control the plugin's output gain. In the Stereo component, the Left and Right output gains can be controlled separately or linked, depending on the L/R Link switch status.

Range: -12 to 12 dB

Default: 0.0 dB

Output Meter: Indicates the plugin's output level. The Stereo component shows output separately for the Left and Right channels. The output meter has a peak indicator that helps to monitor the gain.