

VOLKO

QFB

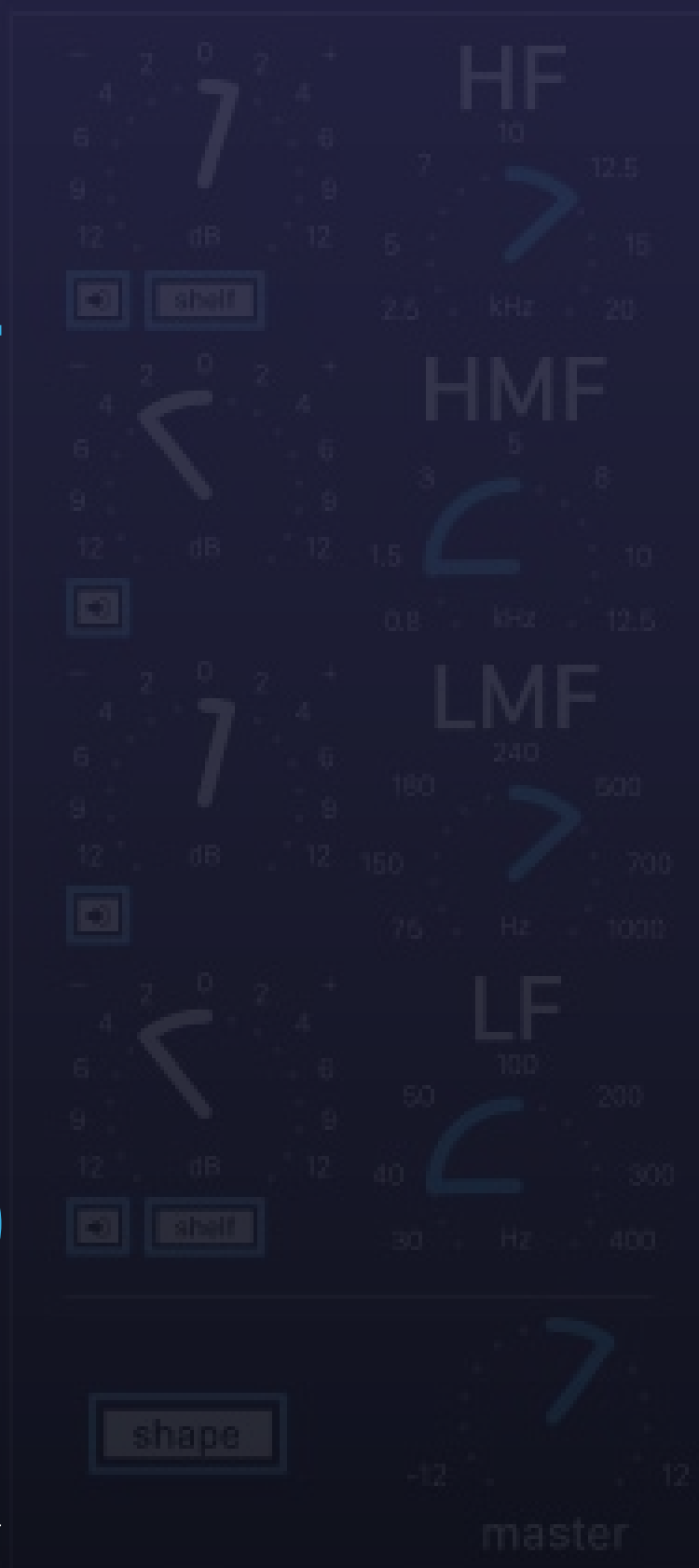


USER MANUAL

document version 1.0

QFB

Vintage American
4-Band
Parametric Equalizer



VOLKO

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1 Introduction

Thank you for choosing Volko Audio!

QB digitally recreates the sounds of the legendary API 550B¹ vintage American 4 band parametric equalizer.

You can get support at www.volkoaudio.com. Please use the support menu.

In order to the most out of the plug-in, please register your product at www.volkoaudio.com.

¹API is a trademark of Automated Process, Inc. the originator of the 550B and is not affiliated with Volko Audio LLC

2 Top-Notch Audio Quality

Unleash your inner mad scientist with the Q American Series plug-ins and add a special note to your music.

The three Q-series plug-ins are designed to work together, complementing each other, eliminating phase and artifact problems that arise when linking together different plug-ins. The fixed QG plug-in allows you to chisel your signals with surgical precision, while the parametric QA and QB plug-ins offer all the flexibility required to make your guitars sing a clear soft tune, or to achieve that heavy metal shredding sound.

The QB plug-in is highly optimized to keep your CPU under low stress, while still maintaining top quality sound output.

3 Practical Design

The sleek interface of the Q-series plug-ins is intuitive, user-friendly and easy on the eyes. It will keep you running tirelessly even after hours of hard work. You will not be able to help yourself from falling in love with it!

4 General Features

The Volko Audio QB plug-in is a four band parametric equalizer.

- Low Frequency Shelving/Peaking: Selectable filter type: Shelving or Peaking. Seven selectable center frequencies: 30Hz, 40Hz, 50Hz, 100Hz, 200Hz, 300Hz and 400Hz. The amount of boost or attenuation is continuously variable from -12 dB to 12 dB.
- Low Mid Frequency Peaking: Seven selectable center frequencies: 75Hz, 150Hz, 180Hz, 240Hz, 500Hz, 700Hz and 1kHz. The amount of boost or attenuation is continuously variable from -12 dB to 12 dB.
- High Mid Frequency Peaking: Seven selectable center frequencies: 800Hz, 1.5kHz, 3kHz, 5kHz, 8kHz, 10kHz and 12.5kHz. The amount of boost or attenuation is continuously variable from -12 dB to 12 dB.
- High Frequency Shelving/Peaking: Selectable filter type: Shelving or Peaking. Seven selectable center frequencies: 2.5kHz, 5kHz, 7kHz, 10kHz, 12.5kHz, 15kHz and 20kHz. The amount of boost or attenuation is continuously variable from -12 dB to 12 dB.

- Extremely High Processing Efficiency.
- Supports sampling frequencies up to 384 kHz.
- Clickless parameter update.
- Proprietary topology which is optimized for low latency, low noise and high dynamic range.
- Built-in reference-quality upsampling algorithm which can be enabled at sampling frequencies 44.1 kHz and 48 kHz to achieve bell shape symmetry at high frequencies.

5 Minimum System Requirements

- 40 MB free hard disk space
- Windows 7 or newer, 32-bit (x86) or 64-bit (x64) processor with 2 GB RAM
- Mac OS X 10.7 or higher, Intel Processor with 2 GB RAM
- Display capable of 1024x768
- VST, VST3, AU or AAX capable host program
- ASIO supporting sound card (recommended)

6 Supported Formats

The QB plug-in is provided in three separate formats VST, VST3, AU and AAX. It is built for use within a digital audio workstation or an editing software.

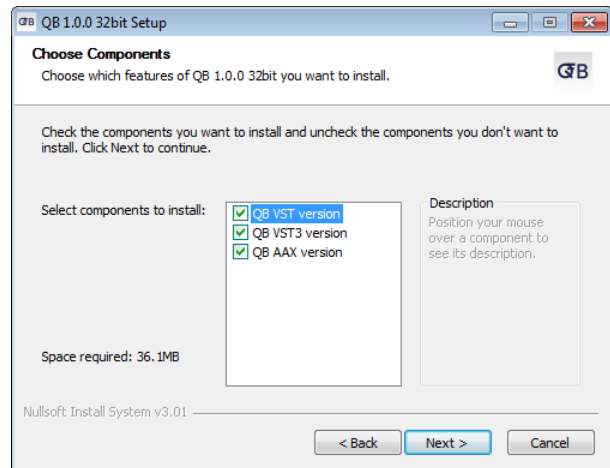
7 Installation

1. Windows Installation

To install the Volko Audio QB plug-in, run (for 32-bit Windows) QB1.0.0_32.exe or (for 64-bit Windows) QB1.0.0_64.exe.

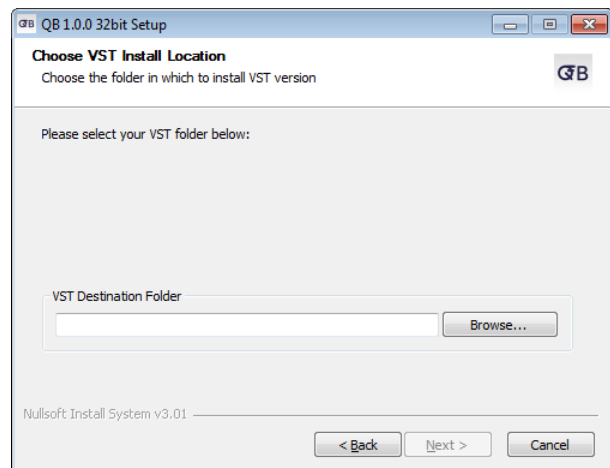
The installer offers three file formats of the QB plug-in

- VST
- VST3
- AAX

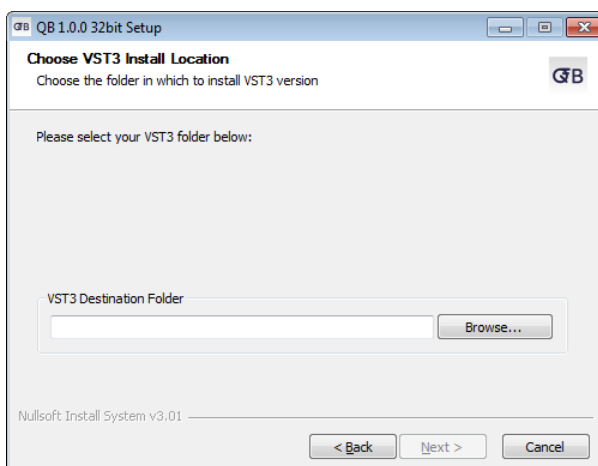


If both VST and VST3 are selected, the installer will first ask for destination folders for both plug-ins. After you select the plug-in destination folder, you need to select the installation folder (usually located in C:\Program Files).

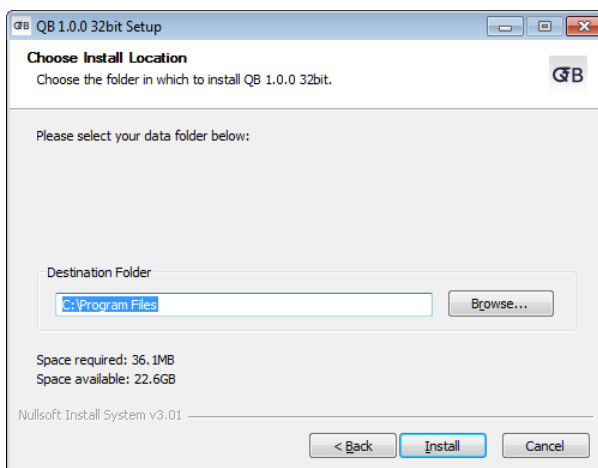
Selecting the VST plug-in destination folder



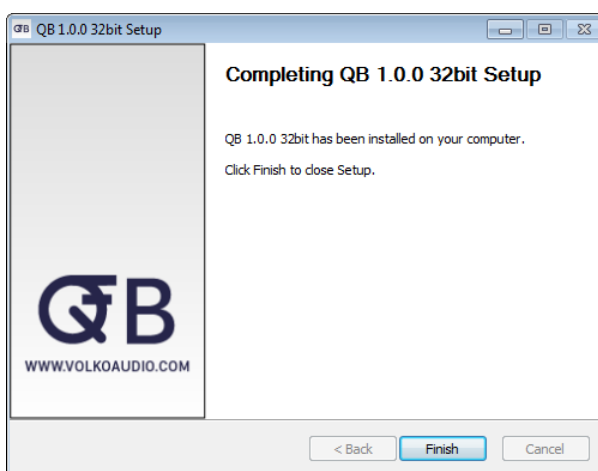
Selecting the VST3 plug-in destination folder



Selecting the application destination folder



The installation is complete, you can now use the QB plug-in

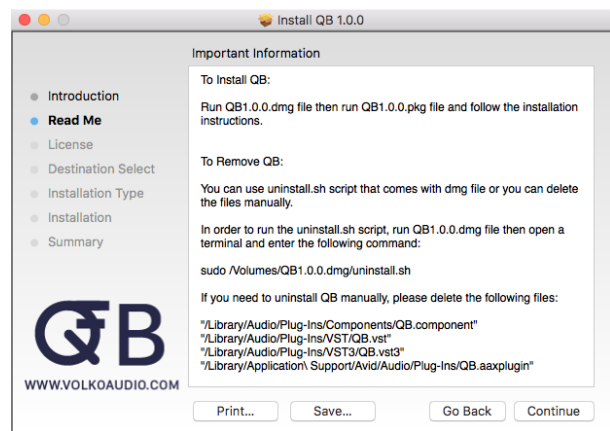


2. Mac OS X Installation

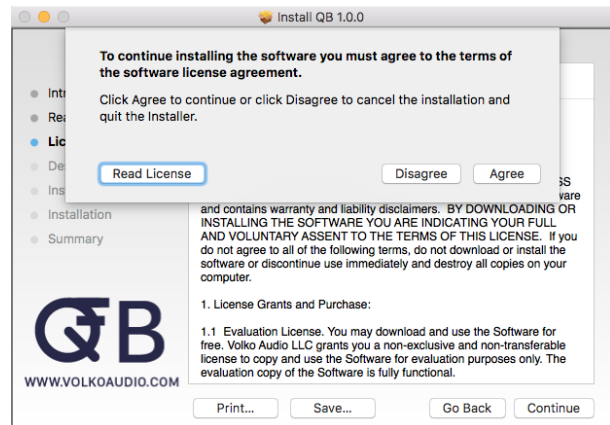
To install the QB plug-in on Mac OS X, run QB1.0.0.dmg and then QB1.0.0.pkg and follow the installation instructions.



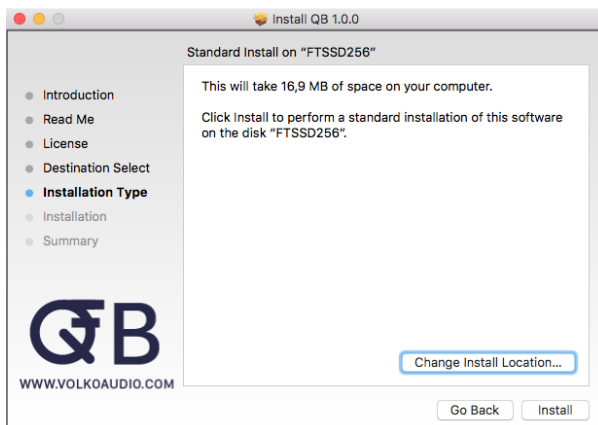
Installation instructions



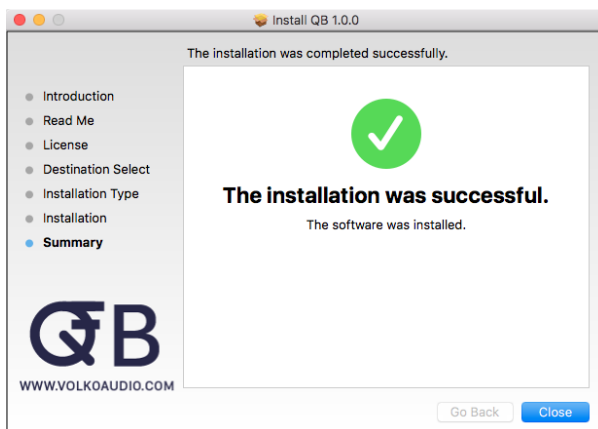
Accept the License agreement



Space requirements and install location.



The installation is complete, you can now use the Volko Audio QB plug-in



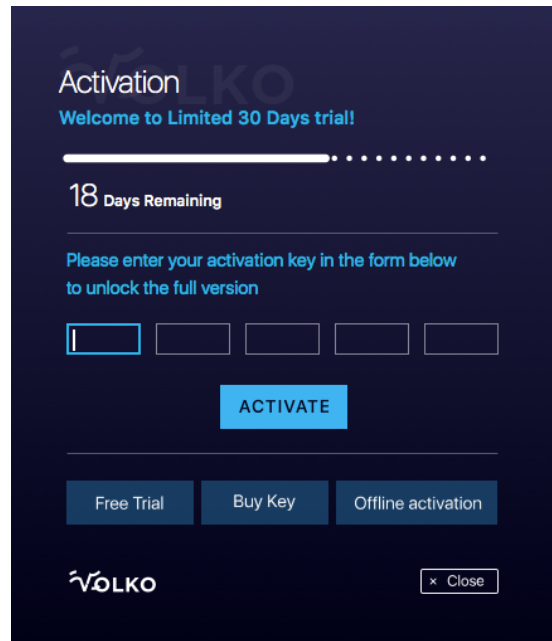
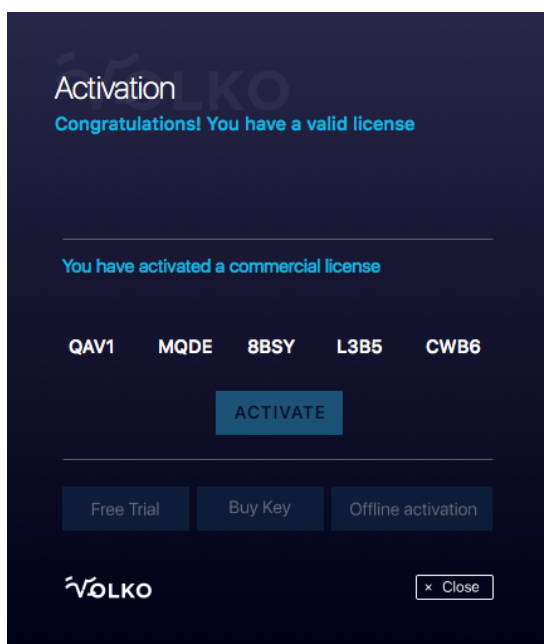
8 Authorization

When you first start the QB plug-in, you will be asked to activate your product. We offer a 30 day free trial period during which you can use the plug-in without any limitations. In order to continue using your trial product, just click on "Free Trial".

If you would like to activate your product, we offer an online and an offline activation method.

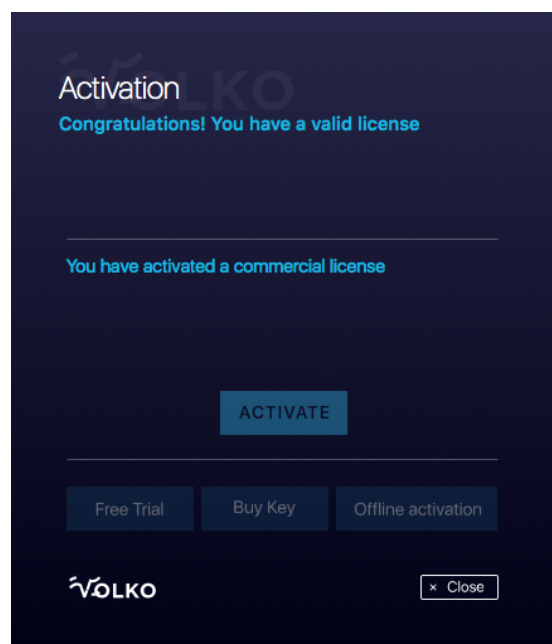
1. Online Activation

If you would like to activate your product by using a serial number, you can purchase a license from www.volkoaudio.com. You can enter your serial number in the designated fields in the plug-in activation window. After activating you can use your product without any limitations.



2. Offline Activation

If you would like to activate your product by using a key file, you can purchase one from www.volkoaudio.com by clicking on "Buy Key". You can then activate your product by clicking on "Offline Activation" and selecting your key file. After activating you can use your product without any limitations.



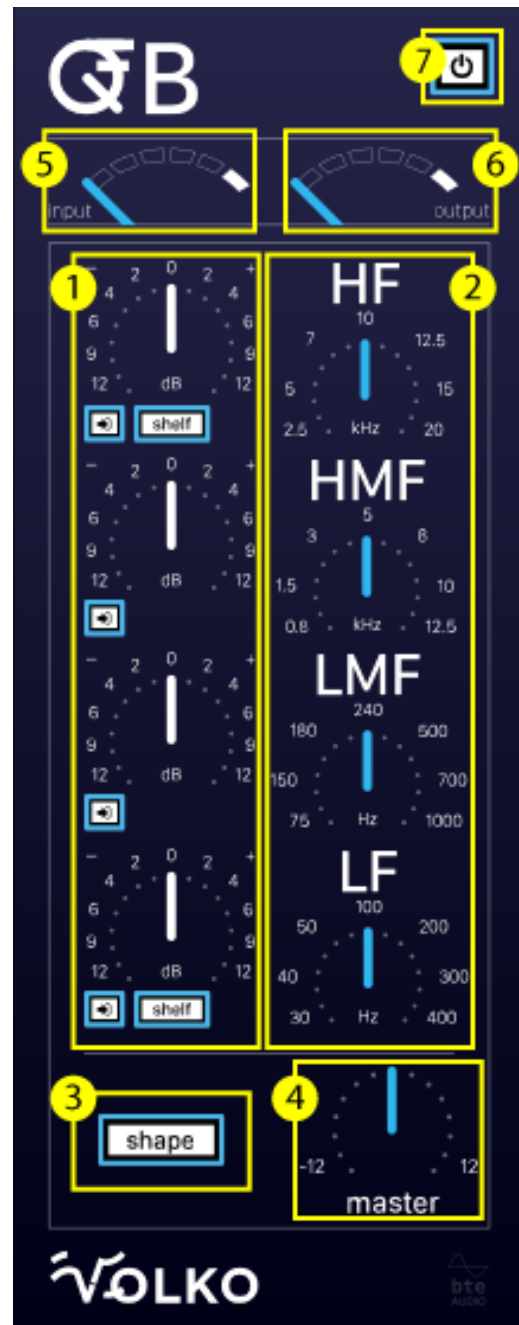
9 Plug-in Description

The gain and peak selection controls are divided in four groups Low frequency (LF), Low-Mid frequency (LMF), High-Mid frequency (HMF) and High frequency (HF).

1. Band gain and filter type

There are four dials used to adjust the gain of each one of the frequency bands. You can adjust the boost or cut value by hovering over one of the knobs and scrolling up or down. Alternatively, you can click on the knob and drag up and down. A pop-up bubble displays the current value.

- Low frequency
 - Low insert: Inserts/disengages the Low Frequency Shelving/Peaking Band.
 - Low filter type: Selects either shelving or peaking as filter type for the Low Frequency Shelving/Peaking Band.
- Low-Mid frequency
 - Low-Mid Peak Insert: Inserts/disengages the Low-Mid Frequency Peaking Band.
- High-Mid frequency
 - High-Mid Peak Insert: Inserts/disengages the High-Mid Frequency Peaking Band.
- High frequency
 - High insert: Inserts/disengages the High Frequency Shelving/Peaking Band.
 - High filter type: Selects either shelving or peaking as filter type for the High Frequency Shelving/Peaking Band.



2. Frequency bands

You can select different frequency centers for each frequency range. The value of the frequency center can be adjusted by hovering over one of the knobs and scrolling up or down. Alternatively, you can click on the knob and drag up and down. A pop-up bubble displays the current value.

- Low peak frequency – The frequency center of the shelving/peaking band can be set at 30Hz, 40Hz, 50Hz, 100Hz, 200Hz, 300Hz or 400Hz.
- Low-Mid peak frequency – The frequency center of the peaking band can be set at 75Hz, 150Hz, 180Hz, 240Hz, 500Hz, 700Hz or 1kHz.
- High-Mid peak frequency – The frequency center of the peaking band can be set at 800Hz, 1.5kHz, 3kHz, 5kHz, 8kHz, 10kHz or 12.5kHz.
- High peak frequency – The frequency center of the shelving/peaking band can be set at 2.5kHz, 5kHz, 7kHz, 10kHz, 12.5kHz, 15kHz or 20kHz.

3. Shape and Filter

- Shape switch – Enables/disables the upsampling algorithm to achieve bell shape symmetry at 4 kHz, 8 kHz and 16 kHz Peaking Bands. Only effective at sampling frequencies below 48 kHz (inclusive).
- Filter switch – Inserts/disengages the Band Pass Filter.

4. Output signal gain

The master knob sets the gain of the output signal in a range between -12dB and 12dB.

5. Input level display

The power level of the input signal is displayed at the top of the plug-in window.

6. Output level display

The power level of the output signal is displayed at the top of the plug-in window.

7. Bypass

Inserts/disengages the whole QB algorithm. (This parameter is only supported from the Host)