

PSP RetroQ



Operation Manual

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PSP RetroQ



PSP RetroQ offers PSP Audioware's unique take on a musical equalizer with unique sonic character and low phase distortion. This makes RetroQ sound smooth and musically natural. It's shelf filters are based on fabulous-sounding VintageWarmer's filters, and PSP RetroQ's addition of a mid-range filter is designed using the same internal architecture. An adjustable high pass filter is added to make the plug-in a complete program equalizer. It was optimized for use on groups and mixes, but it is equally at home in any situation in which you desire some gentle sweetening in your overall processing chain.

PSP RetroQ Controls

Click on individual filters' names to engage or disable them. A grayed-out name indicates a disengaged filter.

EQ: This switch turns all the filters on and off. The SAT and OUT functions stay active.

HPF (high pass filter): Clicking on this label enables (black) or disables (grey) the high pass filter.

HPF knob: This knob sets the frequency of the high pass filter. The HPF has a range from 15 Hz to 240 Hz.

LF (low shelf filter): Clicking on this label enables (black) or disables (grey) the low shelf filter.

dB Knob: This knob adjusts the boost or attenuation level of the low frequency filter between -12 dB and +12 dB.

Hz Knob: Turn this knob to adjust the frequency of the low filter from 50 Hz (full counter-clockwise) to 400 Hz (full clockwise).

MF (Midrange Filter): Clicking on this label enables (black) or disables (grey) the midrange filter.

Hz Knob: Turn this knob to adjust the frequency of the midrange filter from 500 Hz (full counter-clockwise) to 8 kHz (full clockwise).

dB Knob: This knob adjusts the boost or attenuation level of the midrange filter between approximately -12 dB and +12 dB.

HF (high shelf filter): Clicking on this label enables (black) or disables (grey) the high shelf filter.

dB Knob: This knob adjusts the boost or attenuation level of the high frequency filter between approximately -12 dB and +12 dB.

Hz Knob: Turn this knob to adjust the frequency of the high frequency filter from 1500 Hz (full counter-clockwise) to 24 kHz (full clockwise).

Output section:

SAT – THRU switch: Use this to activate the SAT algorithm as described in the overview section. Clicking the switch to THRU turns off SAT.

OUT: This knob boosts or attenuates the global output level. The output level is variable between approximately -16 dB (full counter-clockwise) and +16 dB (full clockwise).

Output LED: This LED will flash when 0dBFS is exceeded on output. Don't worry, it's not indicating any internal distortion. Once triggered, the LED will stay dark red until reset. Click the LED to reset it. Note that when SAT is engaged, you will never exceed 0dBFS.

Using presets

PSP RetroQ is provided with factory sets of presets.

The main aim of included presets is to show customers the features of the plug-in and help to learn the controls usage. In addition, the presets can be used as a starting point for further adjustments or as quick fix presets.

The PSP RetroQ presets can be accessed from the PSPaudioware standard PRESET bar at the bottom of the plug-in interface. Here you can select from among the factory presets, and load and save individual, as well as banks of presets. There are three sections to this bar, the PRESET section, the Preset window, and the BANK section.

BANK SECTION

Click the green arrow icon to load a bank from a disk.

Click the red arrow icon to save a bank.

Double click the BANK label to permanently store the default preset bank.

Press Command (Mac) or Control (PC) and double click to restore the factory default bank.

PRESET SECTION

Click the green arrow icon to load a preset.

Click the red arrow icon to save a preset.

Double click the PRESET label to permanently store the default preset.

Press Command (Mac) or Control (PC) and double click to restore the factory default preset.

PRESET EDIT BOX

Click the menu button to the right of the preset edit box to see and the popup menu of all the presets in the currently loaded preset bank and to choose a preset from the list.

Click the name of the preset to rename it.

PRESET SELECTION

Click on the bright left arrow to switch to a previous preset on the list.

Click on the bright right arrow to switch to a next preset on the list..

MEMO A and B

Both A and B are permanently stored on your disk. This allows you to compare alternative settings or share a preset between various instances of the plug-in in the same project or even between various projects.

Click the green arrow icon to load a preset from memo A or B.

Click the red arrow icon to save a preset to memo A or B.

?

Click on the question mark whenever you need to open the operation manual.

Technical Specifications

Processing

- FAT double sampling. FAT is automatically switched on for low (below 50kHz) sample rates, and off for higher sample rates. This ensures the most accurate processing independent of the sample rate.
- 64-bit double precision floating point computations for ultra low accumulative errors in the filters.
- An optional second generation SAT(uration) option in the output of the plug-in. This both protects against digital clipping in software or hardware following the plug-in, and adds a smooth, overdriven sound to hard-driven signals. The SATuration algorithm is located after output level control in a plug-in's internal chain and its ceiling reference level is setup a fraction of dB below 0dBFS.
- All actual parameters like gain, frequency or Q may differ from displayed values which is a typical feature of analog equalizers.
- 32 and 64 bit floating point audio streams supported
- Sample rates up to 192kHz supported.

Plug-in Latency

In order to achieve the highest quality results, PSP RetroQ requires a small buffer containing a number of samples in order to process your audio material properly. The amount of samples needed was kept purposefully small so that these equalizers could be used in tracking—in all cases the internal latency is around 1ms (one millisecond). The final latency may vary a bit based on sample rate.

That said, most modern DAWs include plug-in delay compensation, which eliminates the effect of the delay incurred by PSP plug-ins on playback. PSP plug-ins fully support the latency compensation of all host DAWs (meaning, accurately reports its samples of delay to the host). Note that some host DAWs have limitations regarding its delay compensation, so be sure to refer to your DAW's user guide for more information. For your convenience the latency of the plug-in is reported at its bottom bar in samples and milliseconds.

Limitations of the demo version

The demo will operate without any limitations for 14 days from its initial installation. During the demo period you will just need to click on the GUI to engage processing once the plug-in is inserted. After the end of evaluation time you would not be able use the plug-in without authorization.

Authorization

Each PSP plug-in has to be authorized using an automatic authorization application or a batch authorizer downloaded from user's account page on our site.

The About Screen

Each PSP plug-in offers an About window. This screen contains your authorization details, as well as the version number of the plug-in. To access each plug-in's about box, click on the name of the plug-in. To return to the controls view, click the name of the plug-in again (or anywhere in the about screen).

Minimum System Requirements

PC

VST

- Windows x32 or x64 (XP Service Pack 2, Vista or 7)
- VST 2.4 compatible application

RTAS

- Windows x32 or x64 (XP Service Pack 2, Vista or 7)
- ProTools LE 8.0.0 or ProTools TDM 8.0.0 (or later)

AAX

- Windows x32 or x64 (XP Service Pack 2, Vista or 7)
- Pro Tools 10 or Pro Tools HD 10

Mac

AudioUnit

- Mac OSX 10.5 or later
- 32 or 64-bit host application capable of running AudioUnit plug-ins with Cocoa view

VST

- Mac OSX 10.5 or later
- 32 or 64-bit VST 2.4 compatible host application

RTAS

- Mac OSX 10.5 or later
- ProTools LE 8.0.0 or ProTools TDM 8.0.0 (or later)

AAX

- Mac OSX 10.7 or later
- Pro Tools 10 or Pro Tools HD 10

Please keep in mind that these CPU and RAM specifications are *minimum* requirements. For the best performance, you will want a faster CPU and as much RAM as possible!

Support

If you have any questions about any of our plug-ins, please visit our website <http://www.PSPAudioware.com> where you can find the latest product information, free software updates, online support forum and answers to the most frequently asked questions.

You can also contact us by e-mail: support@PSPAudioware.com. We will gladly answer all of your questions. As a rule we respond within 24 hours.

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