

PSP sQuad

Operation Manual

equality through diversity



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Overview of PSP sQuad

Thank you for your purchase of PSP sQuad! This equalizer bundle was designed to provide a variety of unique and musical sounds. These EQs are perfect for any audio material a producer wants to fix or shape, or for any material a producer wants to stand out or separate in a mix. Whether to accent valuable acoustic features make a track group or full mix kick, or just to make a track, group of tracks, or full mix sound professional, PSP sQuad can help. We have encapsulated all of that sonic potential within straightforward graphic interfaces with familiar hardware-like characteristics to make tweaking easy, fast and pleasurable. PSP sQuad EQs will definitely put a smile on your face whenever you think of using them!

PSP sQuad equalizers are inspired by the best features and characteristics of classic analog hardware—musicality and simplicity. Although these EQs are easy to use we expanded their functionality by several features including variable high pass filters or switchable steepness for the shelving filters.

These EQs are CPU efficient enough to be used at every stage of the creative process, from composition through tracking to final production/mixing/mastering. Whenever you want quick musical results, we are confident one of the PSP sQuad EQs will fit your needs!

The Processors in PSP sQuad have a number of features in common with each other, and with other PSP Audioware plug-ins:

- **FAT double sampling.** In the PSP sQuad bundle, unlike other PSP Audioware plug-ins, 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 each 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.

The six processors of PSP sQuad are:

- **PSP ClassicQ** provides the low, high, and extremely precise mid-range filters inspired by classic British EQ designs.
- **PSP ClassicQex** provides all features of the PSP ClassiQ and additional low midrange filter for even more flexible operation.
- **PSP ConsoleQ** is a tracking processor reminiscent of British console equalizers.
- **PSP McQ** captures the sonic character and functionality of various classic console equalizers such as the versatile MCI console EQs
- **PSP preQursor** offers PSP's own take on a custom shaped, musical sounding EQ filters with low resonance peaks and excellent band separation, especially suited for acoustic tracks.
- **PSP RetroQ** features our unique architecture, first unveiled in PSP VintageWarmer and now extended with a superb mid-range filter, that results in an exceptionally musical sound with reduced phase distortion.

PSP sQuad and Plug-in Latency

In order to achieve the highest quality results, most of the plug-ins in PSP sQuad require a buffer of a few 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 slightly depending on sample rate.

That said, most modern DAWs include plug-in delay compensation on playback, which eliminates the effect of the delay incurred by PSP sQuad. PSP sQuad fully supports the latency compensation of all host DAWs (in other words, PSP sQuad accurately reports its buffer size 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 buffer size of each PSP sQuad plug-in is reported in the bottom bar of the plug-in in both samples and milliseconds.

Minimum System Requirements

Before installing the PSP sQuad on your Windows or Macintosh computer, please make sure your system meets these minimum requirements:

Windows

- Intel or AMD processor
(i386 architecture compatible high performance CPU recommended)
- Windows XP (Service Pack 2 or 3 suggested), Windows Vista or Windows 7
- RTAS, or VST compatible audio application

Macintosh

- PowerPC or Intel processor
- Mac OS X 10.4; 10.5 or later
- AU, RTAS, or VST compatible audio application

Please keep in mind that for the best performance, you will want a fast CPU and as much RAM as possible!

Installation

PSP sQuad can be authorized either via a serial number, or you can choose to authorize the bundle using your iLok. One authorization is all that is needed for the entire plug-in collection.

Limitations of the demo version

The demo will only operate for 14 days from its initial installation.

The About Screen

Each PSP sQuad plug-in includes 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).



Preset Handling

Like other PSP Audioware plug-ins, PSP sQuad features the PSP Audioware Preset Bar. Please see the PSP Audioware Preset Bar Quick Guide for information on how to use the Preset Bar.

PSP ClassicQ



PSP ClassicQ is inspired by various classic British-style equalizers. It captures the sound and flavor of famously musical high and low filters (such as those in early Neve EQs), melded to very precise mid-range filter. In addition, PSP ClassicQ offers a selectable simulation of class A circuitry and output transformer for a unique, vintage-style color. To its classic features PSP ClassicQ adds extremely useful features such as an adjustable high pass filter, switchable Q for low- and high-shelf filters, and a sweepable midrange bell-type filter. The design of PSP ClassicQ lends it especially well to fixing and shaping individual tracks.

PSP ClassicQ Controls

From left to right:

EQL (EQ all): Click this button to engage (when illuminated) or disengage all the filters. Note that this does not bypass the plug-in, so the output level, the SIMulation algorithm and SAT feature are still operational.

SIM: This button engages (when illuminated) or disengages the Class A circuitry and transformer simulation. The Class A algorithm is located pre-output level control, and the transformer's simulation is post-output level control (followed by the SAT algorithm).

HPF: This button engages (when illuminated) or disengages the high pass filter.

Hz Knob: Turn this knob to adjust the frequency of the high pass filter from 20Hz (full counter-clockwise) to 400 Hz (full clockwise).

Low Shelf Filter Section:

LF: Click this button to engage (when illuminated) or disengage the low frequency filter.

Hz Knob: Turn this knob to adjust the frequency of the low frequency filter in four steps from 35 Hz (full counter-clockwise) to 220 Hz (full clockwise).

Hi Q: When engaged (illuminated), this function offers a steep, resonant, and punchy low-end characteristic of classic British EQs. Disengaged, the filter is more “polite” sounding.

dB Knob: This knob adjusts the boost or attenuation level of the low filter from -20 dB to +20 dB.

Midrange Filter Section:

MF: Click this button to engage (when illuminated) or disengage the midrange filter.

Q Dial: This knob adjusts the Q factor for the midrange filter. You can select a Q factor in five steps between .5 and 5.

Auto Q: When engaged, the plug-in enters “auto Q” mode in which the Q factor will increase progressively as you increase the amount of boost or attenuation of the signal and reach the nominal value at maximum of boost or cut. This is typical for bell-type filters in classic equalizers. Disengaged, the midrange filter works more like a surgical, static Q regardless of the level of boost or attenuation.

Hz Knob: Turn this knob to adjust the nominal frequency of the mid filter from 50 Hz (full counter-clockwise) to 1000 Hz (full clockwise).

Hz x 10: This button, when engaged (illuminated), multiplies the frequencies of the Hz knob by 10. In other words, the range of the Hz knob when this button is engaged becomes 500 Hz to 10 kHz.

dB Knob: This knob adjusts the boost or attenuation level of the low filter from -20 dB to +20 dB.

High Shelf Filter Section:

HF: Click this button to engage (when illuminated) or disengage the high frequency filter.

Hz Dial: Turn this knob to adjust the frequency of the high filter in four steps from 5 kHz to 16 kHz.

dB Knob: This knob adjusts the boost or attenuation of the high filter from -20 dB to +20 dB.

Hi Q: When engaged (illuminated), this function offers a steep, resonant, and characteristic of classic British EQs. Disengaged, the filter is more “polite” sounding.

Output Section:

dB Knob: This knob boosts or attenuates the global output level. The output level is variable between -20 dB (full counter-clockwise) and +20 dB (full clockwise).

SAT: This turns on or off the Saturation algorithm described in the overview.

Output digital peak meter: This LED type meter indicates output level in the range of -20 to +3dBFS.

PSP ClassicQex



PSP ClassicQex is extended version of the PSP ClassicQ. All features of the previous version are available, and a new Low Mid section is added.

PSP ClassicQex Controls

From left to right:

EQL (EQ aIL): Click this button to engage (when illuminated) or disengage all the filters. Note that this does not bypass the plug-in, so the output level, the SIMulation algorithm and SAT feature are still operational.

SIM: This button engages (when illuminated) or disengages the Class A circuitry and transformer simulation. The Class A algorithm is located pre-output level control, and the transformer's simulation is post-output level control (followed by the SAT algorithm).

HPF: This button engages (when illuminated) or disengages the high pass filter.

Hz Knob: Turn this knob to adjust the frequency of the high pass filter from 20Hz (full counter-clockwise) to 400 Hz (full clockwise).

Low Shelf Filter Section:

LF: Click this button to engage (when illuminated) or disengage the low frequency filter.

Hz Knob: Turn this knob to adjust the frequency of the low frequency filter in four steps from 35 Hz (full counter-clockwise) to 220 Hz (full clockwise).

Hi Q: When engaged (illuminated), this function offers a steep, resonant, and punchy low-end characteristic of classic British EQs. Disengaged, the filter is more “polite” sounding.

dB Knob: This knob adjusts the boost or attenuation level of the low filter from -20 dB to +20 dB.

Low Midrange Filter Section:

LMF: Click this button to engage (when illuminated) or disengage the low midrange filter.

Hi Q: When engaged (illuminated), the Q factor for the low midrange filter is set to narrow range 3, otherwise it is set to 1 resulting in a wide bell range. The Q behavior works like in the Auto Q mode of the high midrange filter.

Hz Knob: Turn this knob to adjust the nominal frequency of the mid filter from 50 Hz (full counter-clockwise) to 1000 Hz (full clockwise).

dB Knob: This knob adjusts the boost or attenuation level of the low filter from -20 dB to +20 dB.

High Midrange Filter Section:

HMF: Click this button to engage (when illuminated) or disengage the midrange filter.

Q Dial: This knob adjusts the Q factor for the midrange filter. You can select a Q factor in five steps between .5 and 5.

Auto Q: When engaged, the plug-in enters “auto Q” mode in which the Q factor will increase progressively as you increase the amount of boost or attenuation of the signal and reach the nominal value at maximum of boost or cut. This is typical for bell-type filters in classic equalizers. Disengaged, the midrange filter works more like a surgical, static Q regardless of the level of boost or attenuation.

Hz Knob: Turn this knob to adjust the nominal frequency of the mid filter from 50 Hz (full counter-clockwise) to 1000 Hz (full clockwise).

Hz x 10: This button, when engaged (illuminated), multiplies the frequencies of the Hz knob by 10. In other words, the range of the Hz knob when this button is engaged becomes 500 Hz to 10 kHz.

dB Knob: This knob adjusts the boost or attenuation level of the low filter from -20 dB to +20 dB.

High Shelf Filter Section:

HF: Click this button to engage (when illuminated) or disengage the high frequency filter.

Hz Dial: Turn this knob to adjust the frequency of the high filter in four steps from 5 kHz to 16 kHz.

dB Knob: This knob adjusts the boost or attenuation of the high filter from -20 dB to +20 dB.

Hi Q: When engaged (illuminated), this function offers a steep, resonant, and characteristic of classic British EQs. Disengaged, the filter is more “polite” sounding.

Output Section:

dB Knob: This knob boosts or attenuates the global output level. The output level is variable between -20 dB (full counter-clockwise) and +20 dB (full clockwise).

SAT: This turns on or off the Saturation algorithm described in the overview.

Output digital peak meter: This LED type meter indicates output level in the range of -20 to +3dBFS.

PSP ConsoleQ



PSP ConsoleQ captures the sound character and functionality of various classic British console equalizers including flexible AMEK eqs. Although it takes inspiration from these analog classics we added several features such as an adjustable high pass filter, steepness (resonance) control for the shelving filters, and three nominal Q values for midrange filters. In addition to its other many musical features we designed PSP ConsoleQ's midrange bell type filters so that they have gain following Q factors. By this, we mean that the Q factor of these filters gradually increases along with increases in boost or attenuation. The ConsoleQ is specially designed for deep track tweaking to get the desired sound for a track, or just to get great track separation in the mix.

PSP ConsoleQ Controls

PSP ConsoleQ has a very straightforward GUI, reflecting the console equalizers of its sonic heritage. As such, it's controls need only basic explanation.

All Filters:

IN: Click this button to engage (lit) or disengage (unlit) a specific filter

EQL (EQ all): Click this button to engage (when illuminated) or disengage all the filters. Note that this does not bypass the plug-in, so the output level and SAT features are still operational.

OUT: This knob adjusts the global output level. The output level is variable between -20 dB (full counter-clockwise) and +20 dB (full clockwise).

SAT: This turns on or off the Saturation algorithm described in the overview.

HPF (High Pass Filter):

Black Knob: The knob lets you adjust the high pass filter frequency. The HPF has a range from 20 Hz (full counter-clockwise) to 800 Hz (full clockwise).

L – R Switch: Use this switch to assign the filters to only the left channel (L), both channels (center position), or only the right channel (R).

LF (Low Shelf Filter):

Ring: Click and drag the knob's ring or area around it to adjust the frequency of the low filter.

Red Knob: Use the knob to adjust the boost or attenuation of the low frequency filter between -20 dB (full counter-clockwise) and +20 dB (full clockwise).

Shelf Switch: Use this switch to select the characteristics of the shelf for the low filter. The left shelf position offers a smooth and classic shelf sound. The right shelf position results in steep filtering and a more selective, punchier sound.

LMF (Low Midrange Filter):

Ring: Click and drag the knob's ring or area around it to adjust the frequency of the low mid filter.

Green Knob: Use the knob to adjust the gain of the low midrange filter between -14 dB (full counter-clockwise) and +14 dB (full clockwise).

Q Width Switch: Use this switch to select the nominal Q factor value for the low mid filter. The nominal Q value is reached approximately at maximum boost or attenuation. The values are 0.7, 2, and 4.

HMF (High Mid Filter):

Ring: Click and drag the knob's ring or area around it to adjust the frequency of the high mid filter.

Blue Knob: Use the knob to adjust the gain of the high mid filter between -14 dB (full counter-clockwise) and +14 dB (full clockwise).

Q Width Switch: Use this switch to select the nominal Q factor value for the low mid filter. The nominal Q value is reached approximately at maximum boost or attenuation. The values are 0.7, 2, and 4.

HF (High Shelf Filter):

Ring: Click and drag the knob's ring or area around it to adjust the frequency of the high shelf filter.

Tan Knob: Use the knob to adjust the boost or attenuation of the high frequency filter between -20 dB (full counter-clockwise) and +20 dB (full clockwise).

Shelf Switch: Use this switch to select the characteristics of the shelf for the high filter. The left shelf position offers a smooth and classic shelf sound. The right shelf position results in steep filtering and a more selective, punchier sound.

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 on the output.

PSP McQ



PSP McQ captures the sonic character and functionality of various classic console equalizers such as the versatile MCI console EQs. However, while PSP McQ was inspired by these analog classics, we added several modern features such as adjustable high pass and low pass filters, steepness (resonance) control for the shelving filters, optional bell filters for the low and high bands, and three nominal Q values for the midrange filters. We packed the PSP McQ full of musical features, such as gain following Q factors for the midrange bell type filters. By this, we mean that the Q factor of these filters gradually increases along with increases in boost or attenuation. The PSP McQ is especially suited for deep track tweaking in order to get a desired sound for a track, or to get great track separation in the mix.

PSP McQ also includes our unique second generation SAT(uration) option in the output section. 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 PSP McQ's internal chain and its ceiling reference level is setup a fraction of dB below 0dBFS.

PSP McQ Controls

PSP McQ has a very straightforward GUI, reflecting the band-split layout of console equalizers. As such, it's controls should be relatively easy to understand.

EQ: Click this switch to engage or disengage all the filters. Note that this does not bypass the plug-in, so the output level and SAT features are still operational.

Output LED: This LED will flash when 0dBFS is exceeded on output. Don't worry, a flashing LED doesn't indicate 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 on the output.

OUTPUT: This knob adjusts the global output level. The output level is variable between -20 dB (full counter-clockwise) and +20 dB (full clockwise).

L – R Switch: Use this switch to assign the filters to only the left channel (L), both channels (center position), or only the right channel (R).

PHASE: Click this button to switch the input phase into reversed or normal mode.

SAT: This turns on or off the Saturation algorithm described in the overview.

LPF (Low Pass Filter):

Switch: Click this switch to engage or disengage the low pass filter

Knob: The knob lets you adjust the low pass filter frequency. The LPF has a range from 12 Hz (full counter-clockwise) to 2 kHz (full clockwise).

HPF (High Pass Filter):

Switch: Click this switch to engage or disengage the high pass filter

Knob: The knob lets you adjust the high pass filter frequency. The HPF has a range from 600 Hz (full counter-clockwise) to 28 kHz (full clockwise).

LOW (Low Filter):

Switch: Use this switch to select the “I” mode for +-10dB range, “II” mode for +-20dB range or to disengage the filter in the “0” position.

kHz Knob: Click and drag the knob to adjust the frequency of the low filter. The low filter has a range from 20 Hz (full counter-clockwise) to 500 Hz (full clockwise)

dB Knob: Use the knob to adjust the boost or attenuation of the low frequency filter between 10 dB (full counter-clockwise) and +10 dB (full clockwise) when the filter is in “I” mode or double the range in “II” mode.

Shape Switch: Use this switch to select the characteristics of the shelf for the low filter. The low (shelf) position offers a smooth and classic shelf sound. The middle position results in steep shelf filtering and a more selective, punchier sound. The high (bell) position switches this filter to a wide bell mode.

MID1 (Midrange Filter 1):

Switch: Use this switch to select the “+” mode for boost operation, “-” mode for attenuation or to disengage the filter in the “0” position.

kHz Knob: Click and drag this knob to adjust the frequency of the MID1 filter. This filter has a range from .07 kHz (full counter-clockwise) to 7.2 kHz (full clockwise)

dB Knob: Use the knob to adjust the boost or attenuation of the middle frequency filter up to 20 dB.

Q Width Switch: Use this switch to select the nominal Q factor value for the low mid filter. The nominal Q value is reached approximately at maximum boost or attenuation. The values are 0.7, 2, and 4.

MID2 (Midrange Filter 2):

Switch: Use this switch to select the “+” mode for boost operation, “-” mode for attenuation or to disengage the filter in the “0” position.

kHz Knob: Click and drag the knob to adjust the frequency of the MID2 filter. This filter has a range from .1 kHz (full counter-clockwise) to 16 kHz (full clockwise)

dB Knob: Use the knob to adjust the boost or attenuation of the middle frequency filter up to 20 dB.

Q Width Switch: Use this switch to select the nominal Q factor value for the low mid filter. The nominal Q value is reached approximately at maximum boost or attenuation. The values are 0.7, 2, and 4.

HIGH (HIGH Filter):

Switch: Use this switch to select the “I” mode for +-10dB range, “II” mode for +-20dB range or to disengage the filter in the “0” position.

kHz Knob: Click and drag the knob to adjust the frequency of the high filter. The high filter has a range from 3 kHz (full counter-clockwise) to 25 kHz (full clockwise)

dB Knob: Use the knob to adjust the boost or attenuation of the low frequency filter between 10 dB (full counter-clockwise) and +10 dB (full clockwise) when the filter is in “I” mode or double the range in “II” mode.

Shape Switch: Use this switch to select the characteristics of the shelf for the low filter. The low (shelf) position offers a smooth and classic shelf sound. The middle position results in steep shelf filtering and a more selective, punchier sound. The high (bell) position switches this filter to a wide bell mode.

PSP preQursor



PSP preQursor offers PSP's own uniquely designed filters with low resonance peaks for reduced ringing artifacts, great band separation, and narrow notching on negative gains. All four filters are bell-type filters with progressive Q factors. These characteristics mean that this processor sounds excellent on acoustic tracks, overall mixes, or any application in which maintaining the natural feel of the material is paramount.

Clicking the button next to name of any individual filter turns it on or off. When a filter is off, the button's LED will be grayed out.

PSP preQursor Controls

From left to right:

HPF Knob: This knob adjusts the high pass filter. The full counter-clockwise position (OFF) disengages the high pass filter. When engaged, you can adjust the high pass filter between 20 Hz and 250 Hz.

L – R Switch: Use this switch to assign the filters to only the left channel (L), both channels (center position), or only the right channel (R).

LF: Click this button to engage (illuminated) or disengage the low frequency filter.

dB Knob: This knob adjusts the boost or attenuation level of the low frequency filter between approximately -15 dB and +15 dB.

LF Frequency Switch: Use this switch to choose the frequency of the low frequency filter. You can choose from five different frequencies; in order to help guide you, we have labeled three of these five: 30 Hz, 60 Hz, or 120 Hz.

Q: When engaged (illuminated), the Q factor of this filter is set to narrowed bandwidth resulting in a steep curve. When disengaged, the Q factor is set to a basic wide bandwidth curve.

LMF: Click this button to engage (illuminated) or disengage the low midrange filter.

dB Knob: This knob adjusts the boost or attenuation level of the low midrange filter between approximately -15 dB and +15 dB.

LMF Frequency Switch: Use this switch to choose the frequency of the low midrange filter. You can choose from seven different frequencies; in order to help guide you, we have labeled four of these seven: 200 Hz, 350 Hz, 500 Hz, or 900 Hz.

Q: When engaged (illuminated), the Q factor of this filter is set to narrowed bandwidth resulting in a steep curve. When disengaged, the Q factor is set to a basic wide bandwidth curve.

HMF: Click this button to engage (illuminated) or disengage the high midrange filter.

dB Knob: This knob adjusts the boost or attenuation level of the high midrange filter between approximately -15 dB and +15 dB.

HMF Frequency Switch: Use this switch to choose the frequency of the high midrange filter. You can choose from seven different frequencies; in order to help guide you, we have labeled four of these frequencies: 1500 Hz, 2500 Hz, 4300 Hz, or 7200 Hz.

Q: When engaged (illuminated), the Q factor of this filter is set to narrowed bandwidth resulting in a steep curve. When disengaged, the Q factor is set to a basic wide bandwidth curve.

HF: Click this button to engage (illuminated) or disengage the high frequency filter.

dB Knob: This knob adjusts the boost or attenuation level of the high frequency filter between approximately -15 dB and +15 dB.

HF Frequency Switch: Use this switch to choose the frequency of the high frequency filter. You can choose 10 kHz, 16 kHz, or 25 kHz.

Q: When engaged (illuminated), the Q factor of this filter is set to narrowed bandwidth resulting in a steep curve. When disengaged, the Q factor is set to a basic wide bandwidth curve.

EQ: This button engages (illuminated) or disables all the filters in the processor, while keeping the output level and SAT controls active.

EQ Knob: This knob adjusts the global boost or attenuation in gain for the PSP preQursor. You can adjust the level between approximately -15 dB and +15 dB.

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

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.

PSP RetroQ



PSP RetroQ offers PSP Audiware'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.

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 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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