

# DiBiQuadro



MercuryRec

## USER MANUAL



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Thanks for purchasing DiBiQuadro MercuryRec. This is the result of a meticulous engineering design, passion for perfection and unforgiving comparisons with analog counterparts.

Please take your time to read carefully the content of this manual before using the plugin and the renderer.

## **Legendary. Powerful. Bold.**

MercuryRec is a highly accurate reproduction of a guitar amplifier famous for its rectification modes, which is, despite of its undisputed reputation in the Heavy Metal environments, capable of nearly any possible musical style. With the original amp being used on countless of records and many genres, in the same way MercuryRec can cover a wide variety of tones: from Blues and Fusion, to Hard Rock and of course Metal.

MercuryRec is not just a simple replica of the 3 channels version but instead a "2 Channels + 1": the high gain Vintage and Modern schematics recreate the old 2 channels vibe while the Clean is taken from the more recent 3 channels models.

Engage MercuryRec with the certainty that you are getting the same nuances of the real thing in the digital domain, and keep in mind: with the additional

tweak section that only DiBiQuadro provides you can add a unique touch and finally get your very own personal sound!

## **Non-Plus-Ultra Preamp**

MercuryRec preamp features a built-from-scratch 64-bit engine which is based on general purpose hi-quality algorithms and the most recent non-linear models. Particular attention has been put on the definition of the Non-Linear Solver to get the maximum quality and realism, without losing details in favor of performances (Double-Precision Non-Linear Computing).

Also, MercuryRec brings a completely new philosophy to the table: being able to shape your tone by giving total access to the circuit components. Managing each gain stage level, shaping the tone-stacks or modifying the tubes characteristics: there is virtually no limit to what you can achieve with MercuryRec!

## **Pwr/Cabs: Non-Linear Convolution**

The chain made of tube power amp, cabinet/speaker, microphone, high-end studio preamp is sampled

together as a unique block to preserve the correct interaction between the specific power amp and the speakers. Contrary to what is commonly used in the amp simulation market we use Non-Linear Convolution (NLC) to capture the harmonic distortion of the power amp, the speaker break up, and the harmonic distortion introduced by the high-end mic preamp.

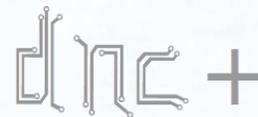
This is not possible using the commonly spread approach of a single IR. First, with a single IR is impossible to reconstruct the non-linearities of an analog chain. Since the power amp is generally modeled in the competitors products, the main problem is the missing non-linearities coming from the speaker and the microphone preamp. While this is somehow negligible for some types of high wattage speakers when dealing high gain sounds, it is essential when the speaker break up is part of the tone. Second, most of the times a solid state power amp is used to sample a speaker behavior. This power amp despite being considered "neutral" has its own character due to the different impedance and interaction with the speaker compared to the tube amp we generally want to capture.

The NLC engine, based on 64-bit (double precision) processing allows up to 40 kernels (harmonics). The amount of kernels is selectable.

Another limit of many well-known products on the market is the complete absence of power amp clipping. This aspect is not only provided by our Pwr/Cabs but a complete sets of parameters allows the full control over the power amp headroom, the type of clipping and the interaction of the negative feedback with the Depth and Presence knobs. This is essential to determine the amount of signal used in the tone shaping after the power amp starts to saturate. The power amp saturation adds harmonics to the kernels already applied by the NLC engine.

## DNC+

The proprietary solutions described in the previous paragraphs are grouped under a common acronym: DNC+ (Double-Precision Non-Linear Computing and Convolution).



Double-Precision Non-Linear Computing and Convolution

## About (db)<sup>2</sup>

DiBiQuadro is the result of the joint forces of two Italian Software Engineers with more than 15 years of experience in several industries including Biomedical, Military, Insurance, Travel, Telecommunications and Pro Audio.

Our purpose is to deliver superior results in the Audio market with ground breaking technology and nice user-friendly graphic interfaces.

The full logo for DiBiQuadro, featuring the brand name in a stylized, italicized, serif font.

DiBiQuadro full logo

The compact logo for DiBiQuadro, featuring the brand name in a stylized, italicized, serif font.

DiBiQuadro compact logo

## Input processing

MercuryRec – Plugin or Renderer – has been designed to process exclusively mono sources. Therefore, a dedicated instance of MercuryRec has to be applied to each guitar signal.

## GUI: tooltips and Edit Mode

The graphic engine conception has a purpose in mind: keeping a clear indication of the status of the elements without altering their 3D rendering on the scene. Tooltips serve this purpose perfectly especially when dealing with knobs status. A typical approach would be to compress the height of the knobs trying to prevent the user to commit parallax errors. As a side effect the graphic designer would be forced to take into account this constraint by limiting the 3D depth of the scene.

Another good reason to use a tooltip-based approach is to allow the update of the knobs status by using an Edit Mode.



The tooltip



EDIT mode

When using a state-of-the-art system – see minimum requirements on DiBiQuadro website – MercuryRec GUI is able to deliver more than 60 FPS at a reasonably low CPU usage for a super fluid knob tweaking and a hyper realistic and fast meter response.

## Controls

**CLEAN.** Based on the latest versions of the hardware equivalent, the Clean channel can give you warm cleans or crunch tones when the **GAIN** knob is increased. When the **PUSH** switch is engaged you obtain tones from a beautiful warm crunch up to a great overdrive.

**VINTAGE.** Here is where the things become legendary in the high gain territory. The tone is full of warm overdriven harmonics, juicy, liquid. It is the perfect tone for both heavy rhythm guitars and leads.

**MODERN.** The other legendary high gain mode. It delivers the same gain structure of the **VINTAGE** channel but

with a potentially more aggressive top end. You can get results similar to the **VINTAGE** channel depending on the **PRESENCE** knob setting.

**GAIN.** This knob adjusts the amount of gain of the selected channel.

**TONE-STACK.** Simply Bass, Mid, Treble as you would expect on a great amp. There is one independent tone-stack for each channel.

**DEPTH/PRESENCE.** Depending on the selected Pwr/Cab these controls may be present or not in order to tweak respectively the bottom-end and the top-end of the power amp section.

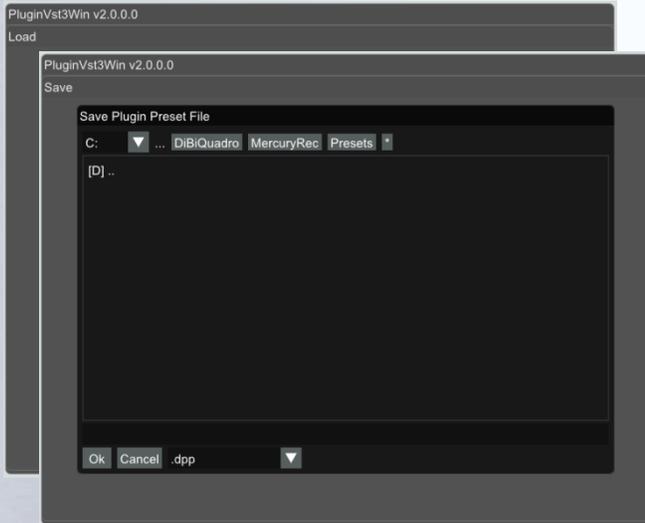
**CHANNEL OUTPUT.** This knob represents the channel volume of the preamp. Since it is part of the circuit it affects the general tone of the channel.

**INPUT [dB].** This knob adjusts the amount of signal entering the plugin and it can be used as a clean boost before the preamp. The **INPUT LEVEL** meter displays the amount of signal in input and it is directly affected by this knob.

**OUTPUT [dB].** This is a clean volume knob on the general output of the plugin. Use this control to properly feed the next plugin in the chain without affecting the tone of MercuryRec. The general output level is displayed by the **OUTPUT LEVEL** meter.

**LOAD/SAVE.** The **LOAD** button opens a window to select a previously saved

preset – this includes knobs, buttons, switches, SIZE, TWEAK and SET settings –. The SAVE button allows to save a file containing the current settings of the plugin.



LOAD and SAVE windows

**PREV/NEXT.** Use these buttons to browse back and forth through the preset files.

**SET/PREAMP/HEAD/POST.** Please refer to the dedicated sections.

Here some useful tricks to interact with the GUI:

- use “CTRL + click” on a knob to reset the value to its default;
- use the mouse wheel on a knob for fine adjustments;
- press SHIFT while moving a knob to fine adjust.

## Edit Mode

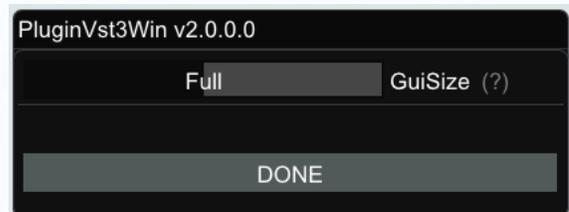
The Edit Mode is accessible by double clicking on a knob. Once done, you can edit the value by using arrows, digits and “.”, “+”, “-” keys. INSERT key is supported too: INSERT status is recognizable by checking the cursor inside the tooltip (“|” means INSERT disabled, “\_” means INSERT enabled). After modifying the value press ENTER to commit or ESC to roll-back to the latest value before entering the Edit Mode.

## Resize GUI

Only on Windows OS GUI is resizable by right clicking on the GUI itself and selecting one the available options. Two options are available:

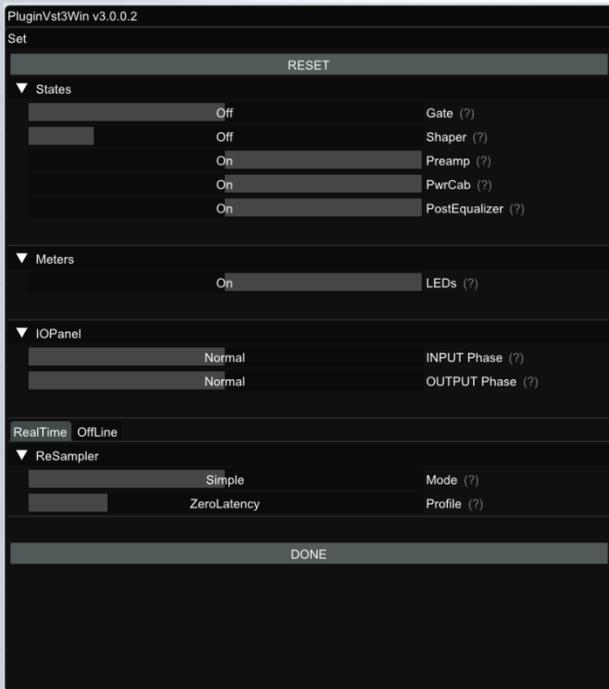
- Normal
- Full

On macOS the GUI size is automatically selected depending on the screen resolution so this feature is not necessary.



Resize GUI window (only Windows)

# SET



SET window

You can open the SET window to access the configuration settings for Gate, Shaper, Preamp, Pwr/Cab, PostEqualizer, meters, ReSampler, PreRender.

**RESET.** It restores the default values for all configurations in the SET window.

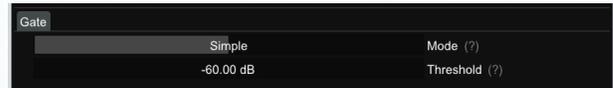
**States.** They enable / disable the various elements of the plugin.

**LEDs.** It activates/deactivates the meter LEDs.

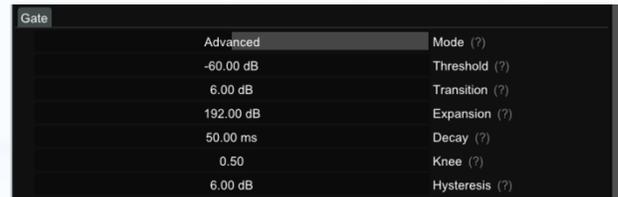
**IOPanel.** This section allows to invert the phase of the input signal (INPUT Phase) and the output signal (OUTPUT Phase).

**Gate.** This tab appears when the Gate is enabled in the States section. Two

modes are available: Simple and Advanced.



Gate tab in Simple mode

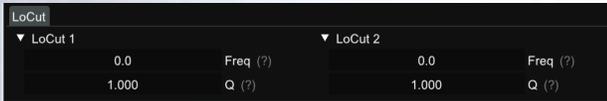


Gate tab in Advanced mode

**Gate in Simple mode.** A single parameter of threshold to set the level at which the gate starts to be applied. The remaining parameters are set to default values and hidden.

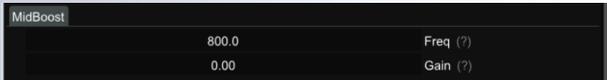
**Gate in Advanced mode.** It displays all the gate parameters. **Transition** can be used to apply a gradual gain reduction when the signal is below the threshold (0 for hard gate); **Expansion** is the maximum gain reduction when the signal is below the threshold; **Decay** controls how quickly the signal fades out when it is below the threshold; **Knee** sets how hardly the gate switches from ungated to gated signal (0 for Hard Knee, 1 for Soft Knee); **Hysteresis** prevents the gate from immediately re-opening after passing below the threshold, to avoid gain flickering.

**LoCut.** This tab appears when the Shaper state is set to LoCut. It just contains two 12dB/oct loCut filters (Freq and Q). Particularly useful when dealing with boomy signals.



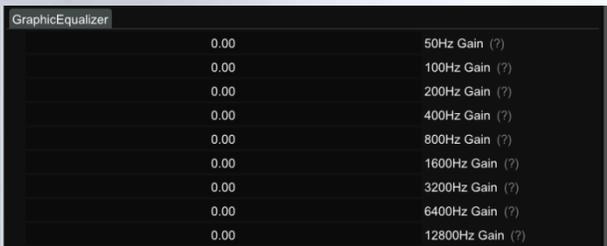
LoCut tab

**MidBoost.** This tab appears when the Shaper state is set to MidBoost. Use it to push the preamp on the mid frequencies.



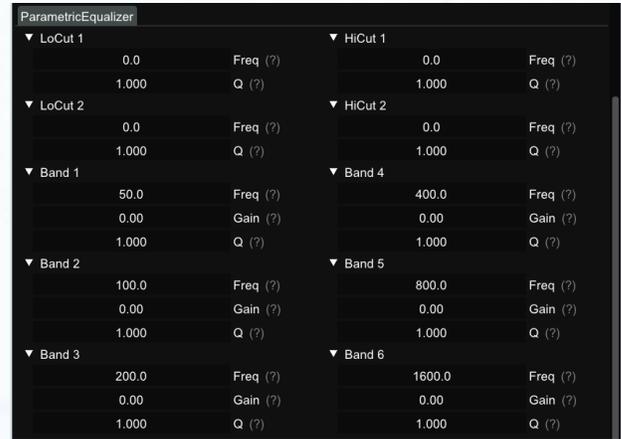
MidBoost tab

**GraphicEqualizer.** This tab appears when the Shaper state is set to GraphicEqualizer. Each of the nine available bands can be boosted or cut of up to 15dB.



GraphicEqualizer tab

**ParametricEqualizer.** This tab appears when the Shaper state is set to ParametricEqualizer. If the previous shaping options were not enough, this tab offers two 12 dB/oct loCut filters (Freq and Q), two 12 dB/oct hiCut filters (Freq and Q) and 6 bell bands (Freq, Gain and Q).



Compressor tab in Simple mode

**Compressor.** This tab appears when the Shaper state is set to Compressor. If you wish to add a touch of compression to your signal before hitting the preamp, this is what you are looking for. Two modes are available: Simple and Advanced. Both modes report a GainReduction indicator in dB.



Compressor tab in Simple mode



Compressor tab in Advanced mode

**Compressor** in **Simple** mode. Three parameters are available: **InputGain** adjusts the level of the signal before any compression happens; **Threshold** adjusts the level above which the

compressor starts attenuating the input signal; **MakeUp** adjusts the level of the output signal after the compression has been applied. All the other parameters are set to default values and hidden.

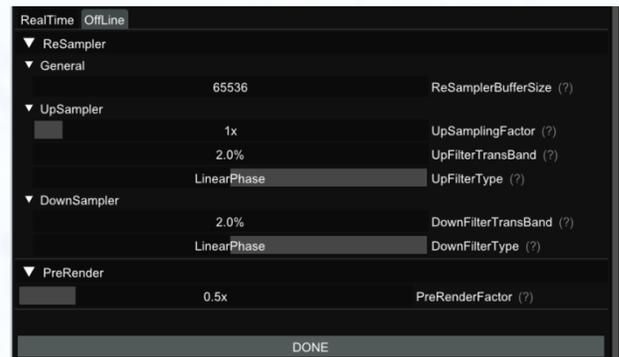
**Compressor** in **Advanced** mode. In addition to the parameters available in the Simple mode, the following ones are displayed: **Attack** sets the time that determines how fast the compression will set in once the signal exceeds the threshold; **Release** sets the time that determines how fast the compressor will recover from the gain reduction once the signal falls under the threshold; **Ratio** determines how much the signal is attenuated above the chosen threshold; **Knee** gives a rounder compression curve when set higher than 0 (0dB: hard knee); **Mix** balances the mix between the dry and processed signal (100%: Wet / 0%: Dry); **LookAhead** enables the compressor LookAhead and shows the **LookAheadDelay** parameter.

**RealTime and OffLine tabs.** These tabs allow the user to specify different configurations for the ReSampler depending on the current processing mode.

**RealTime tab.** This mode is applied by your sequencer when you are using a plugin for monitoring, or when you are playing tracks. We suggest to keep the UpSamplingFactor at 1x in case of monitoring, 4x in case of

playback @ 44100/48000Hz, 2x in case of playback @ 88200/96000Hz.

**OffLine tab.** This mode is set by your sequencer when you are bouncing a track or the complete mix. If the elaboration time is not a constraint for you and you need to render hi-gain guitars, we suggest to set the UpSamplingFactor to at least 128x @ 44100/48000Hz, 64x @ 88200/96000Hz in order to minimize the aliasing artifacts and get super high-quality distortion. Try also to set a very high PreRenderFactor (32x) to stabilize the model in advance. **For very long renders, we strongly suggest to use MercuryRec Renderer in command line mode.**



SET window – OffLine tab

**ReSamplerBufferSize.** This is the ReSampler Buffer Size in number of samples.

**UpSamplingFactor.** This is the UpSampling Factor applied to the base input SampleRate. Use it to increase the quality or your playbacks and renders, but take into account that high UpSampling factors correspond to more samples to be processed, and consequently longer processing times.

**UpFilterTransBand.** This is the UpSampling Filter Transition Band, in percent of the spectral space of the input signal between filter's -3 dB point and the Nyquist frequency.

**UpFilterType.** It defines the UpSampling filter's phase response: Minimum Phase or Linear Phase.

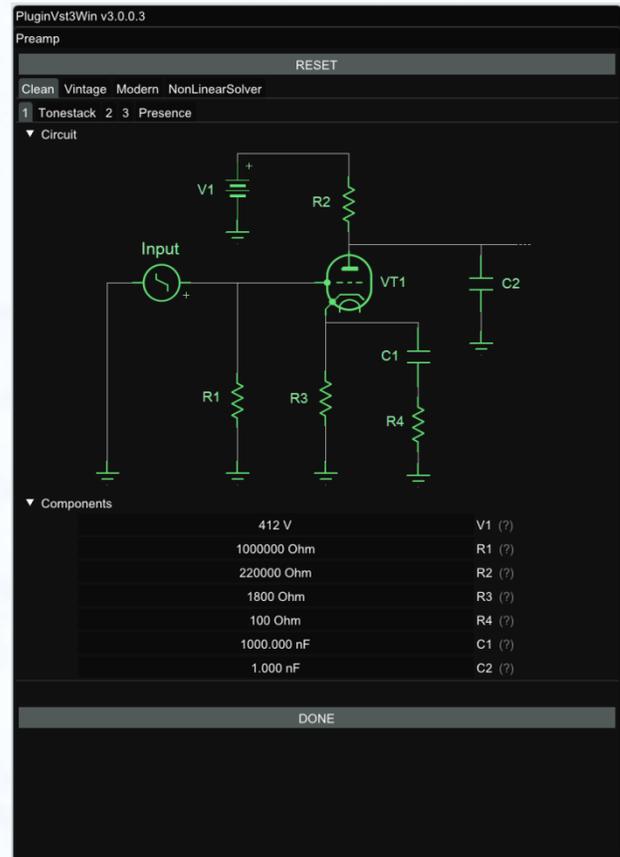
**DownFilterTransBand.** This is the DownSampling Filter Transition Band, in percent of the spectral space of the output signal between filter's -3 dB point and the Nyquist frequency. If you are working at sample rates higher than 44100/48000Hz, we suggest to increase it to 43% to have a smoother low pass filter without impacting the audible frequencies.

**DownFilterType.** It defines the DownSampling filter's phase response: Minimum Phase or Linear Phase.

**PreRenderFactor.** Together with input SampleRate and UpSamplingFactor, PreRenderFactor affects how many samples will be pre-rendered by the model before the real processing. We suggest to set it to the highest value – 32x – in Offline mode.

**DONE.** It closes the SET window.

## PREAMP

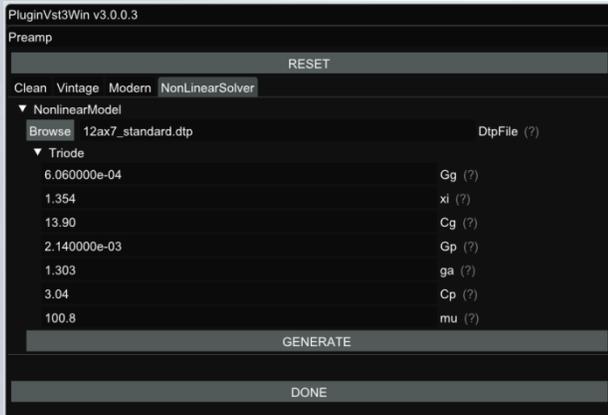


PREAMP window

The PREAMP window gives you the power to modify every single component of the circuit. Even the Triode model of the 12AX7 can be tweaked in the NonLinearSolver tab. Play with this window very carefully, possibly in front of an analyzer, to get exactly what you are looking for. We **do not** guarantee that any possible combination of values makes sense, so it's up to you to find a configuration that works and satisfies your needs.

**RESET.** It restores the default values for all configurations in the PREAMP window.

**Primary tabs.** The primary tabs provide access to the different channels of the circuit and to the 12AX7 triode model. Each channel can be tweaked independently, while there can be only one triode model for all triodes of MercuryRec.



PREAMP window – NonLinearSolver tab

**NonLinearSolver tab.** Use this section to change characteristics of all the triodes in the preamp. It is the most advanced and consequently the least user-friendly feature. Browse button opens the dialog window to select an existing dtp file. The dtp file contains the triode characteristic. The first time a file is selected, it is necessary to generate the look up tables (LUTs) for that triode by pressing GENERATE. Change the name in Browse text input to save a new dtp file and then press GENERATE.

The generation has to be done each time the triode parameters are modified in order to make them effective.

Once the LUTs are generated they are stored in files in the same path of the

dtp file and automatically loaded when selecting the dtp file with the Browse button / dialog window.

To create a new triode characteristic follow these steps:

1. Modify the name in the DtpFile textbox.
2. Change one or more parameters of the triode model<sup>1</sup>.
3. Press **GENERATE** button.

**DONE.** It closes the SET window.

If you accidentally overwrite the characteristics of the factory triodes we recommend reinstalling the product from Center.

## PWR/CAB

The PWR/CAB section allows to quickly switch between 8 preloaded Pwr/Cabs. A Pwr/Cab is the non-linear representation of the chain including:

1. the power amp
2. the cabinet with the speaker
3. the microphone to capture the sound of the speaker
4. the high-end mic preamplifier

A Pwr/Cab with only the power amp is also provided: use this Pwr/Cab to experiment with "larger than life" clean

<sup>1</sup> Have a look at [https://www.dafx.de/paper-archive/2011/Papers/76\\_e.pdf](https://www.dafx.de/paper-archive/2011/Papers/76_e.pdf) for more details.

sounds, or to drive an external IR (in this case an IR loader is necessary).

MercuryRec comes with 44 selectable Pwr/Cabs:

MercuryRec\_000\_100W\_6L6  
MercuryRec\_000\_V\_100W\_6L6  
MercuryRec\_001\_100W\_6L6\_60A\_1\_T75\_57\_A12C  
MercuryRec\_001\_V\_100W\_6L6\_60A\_1\_T75\_57\_A12C  
MercuryRec\_002\_100W\_6L6\_60A\_1\_T75\_201\_A12C  
MercuryRec\_002\_V\_100W\_6L6\_60A\_1\_T75\_201\_A12C  
MercuryRec\_003\_100W\_6L6\_60A\_1\_T75\_421\_A12C  
MercuryRec\_003\_V\_100W\_6L6\_60A\_1\_T75\_421\_A12C  
MercuryRec\_004\_100W\_6L6\_60A\_4\_T75\_57\_A12C  
MercuryRec\_004\_V\_100W\_6L6\_60A\_4\_T75\_57\_A12C  
MercuryRec\_005\_100W\_6L6\_60A\_4\_T75\_201\_A12C  
MercuryRec\_005\_V\_100W\_6L6\_60A\_4\_T75\_201\_A12C  
MercuryRec\_006\_100W\_6L6\_60A\_4\_T75\_421\_A12C  
MercuryRec\_006\_V\_100W\_6L6\_60A\_4\_T75\_421\_A12C  
MercuryRec\_007\_100W\_6L6\_60A\_2\_V30\_57\_A12C  
MercuryRec\_007\_V\_100W\_6L6\_60A\_2\_V30\_57\_A12C  
MercuryRec\_008\_100W\_6L6\_60A\_2\_V30\_201\_A12C  
MercuryRec\_008\_V\_100W\_6L6\_60A\_2\_V30\_201\_A12C  
MercuryRec\_009\_100W\_6L6\_60A\_2\_V30\_421\_A12C  
MercuryRec\_009\_V\_100W\_6L6\_60A\_2\_V30\_421\_A12C  
MercuryRec\_010\_100W\_6L6\_60A\_3\_V30\_57\_A12C\_A  
MercuryRec\_010\_V\_100W\_6L6\_60A\_3\_V30\_57\_A12C\_A  
MercuryRec\_011\_100W\_6L6\_60A\_3\_V30\_201\_A12C\_A  
MercuryRec\_011\_V\_100W\_6L6\_60A\_3\_V30\_201\_A12C\_A  
MercuryRec\_012\_100W\_6L6\_60A\_3\_V30\_421\_A12C\_A  
MercuryRec\_012\_V\_100W\_6L6\_60A\_3\_V30\_421\_A12C\_A  
MercuryRec\_013\_100W\_6L6\_60A\_3\_V30\_57\_A12C\_B  
MercuryRec\_013\_V\_100W\_6L6\_60A\_3\_V30\_57\_A12C\_B  
MercuryRec\_014\_100W\_6L6\_60A\_3\_V30\_201\_A12C\_B  
MercuryRec\_014\_V\_100W\_6L6\_60A\_3\_V30\_201\_A12C\_B  
MercuryRec\_015\_100W\_6L6\_60A\_3\_V30\_421\_A12C\_B  
MercuryRec\_015\_V\_100W\_6L6\_60A\_3\_V30\_421\_A12C\_B  
MercuryRec\_025\_100W\_6L6\_M212\_V30\_57\_A12C\_A  
MercuryRec\_025\_V\_100W\_6L6\_M212\_V30\_57\_A12C\_A  
MercuryRec\_026\_100W\_6L6\_M212\_V30\_201\_A12C\_A  
MercuryRec\_026\_V\_100W\_6L6\_M212\_V30\_201\_A12C\_A  
MercuryRec\_027\_100W\_6L6\_M212\_V30\_421\_A12C\_A  
MercuryRec\_027\_V\_100W\_6L6\_M212\_V30\_421\_A12C\_A  
MercuryRec\_028\_100W\_6L6\_M212\_V30\_57\_A12C\_B  
MercuryRec\_028\_V\_100W\_6L6\_M212\_V30\_57\_A12C\_B  
MercuryRec\_029\_100W\_6L6\_M212\_V30\_201\_A12C\_B  
MercuryRec\_029\_V\_100W\_6L6\_M212\_V30\_201\_A12C\_B  
MercuryRec\_030\_100W\_6L6\_M212\_V30\_421\_A12C\_B  
MercuryRec\_030\_V\_100W\_6L6\_M212\_V30\_421\_A12C\_B

The power amp is a 100Watt 4x6L6 tubes. Letter V stands for Vintage mode

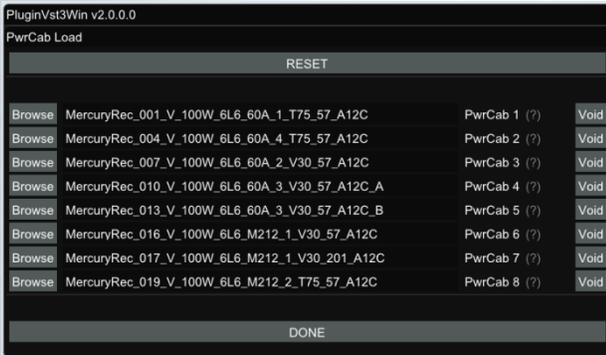
(Presence control in the negative feedback).

Two cabinets are available: slanted 60A loaded with T75s and V30s and M2x12 loaded with a V30 and a T75. A sequential number from 1 to 4 indicates which speaker has been sampled: 1 and 2 are the top left and right while 3 and 4 the bottom left and right respectively.

A hi-end mic preamps was used: A12C is a top notch preamplifier that set the standard for modern recordings.

All Pwr/Cabs are phase aligned (with the sole exception of the power amp Pwr/Cab).

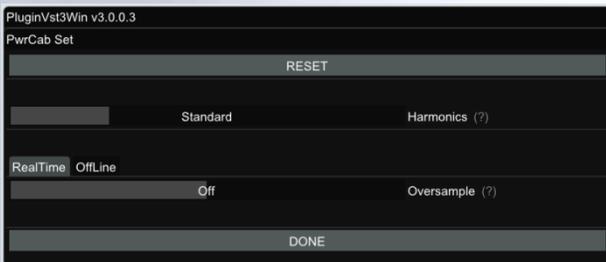
**PWR/CAB LOAD.** Pwr/Cab Load gives access to the 8 slots on the GUI. Browse opens the window to select the Pwr/Cab path, while Void cleans up the slot. When a slot is void the output is taken directly from the preamp if enabled. While the output of the preamp section is not bounded by any volume limit and can be used to drive subsequent plugins (ie: another MercuryRec), the output of a Pwr/Cab is protected by a safety mechanism that clips the signal when above 0dB.



Pwr/Cab LOAD window

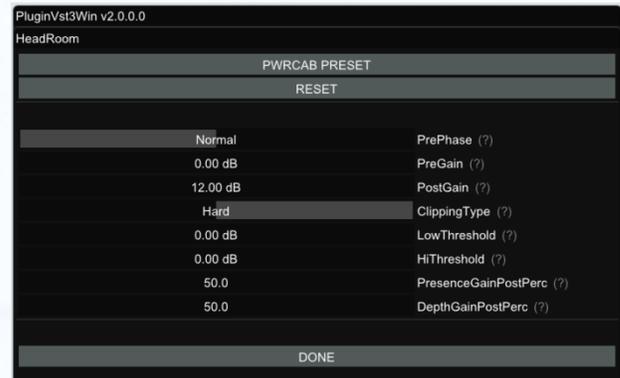
**PWR/CAB SET.** With Pwr/Cab Set you can select the number of harmonics in the Pwr/Cab section:

- Standard: 10 harmonics
- High: 20 harmonics
- Ultra: 30 harmonics
- Non-Plus-Ultra: 40 harmonics



Pwr/Cab SET

## HEAD



HEAD window

Head (HeadRoom) is a powerful tool to shape the behavior of the power amp section including the type of clipping when pushed to the limit (soft/hard, symmetrical/asymmetrical) and the effect of depth and presence when power amp is working in the non-linear region. Each Pwr/Cab has its own setting.

**PWRCAB PRESET.** It restores the factory preset for the selected Pwr/Cab.

**RESET.** It restores the values to the general default values.

**PreGain.** It sets the level of the signal in input to the power amp.

**PostGain.** It defines the level of the signal coming out of the Pwr/Cab.

**ClippingType.** Soft/Hard.

**LowThreshold/HiThreshold.** These can be used to set the clipping thresholds of negative and positive half waves respectively: use different values for

asymmetrical clipping and identical values for symmetrical.

**PresenceGainPostPerc/DepthGainPostPerc.** Percentage of Presence and Depth effect after power amp clipping. They affect the behavior of Presence and Depth only when power amp is saturating.

## POST



POST window

Post (PostEqualizer) is a handy minimum-phase equalizer at the end of the signal chain, with the same bands of the ParametricEqualizer available in the Shaper section.

**PWR CAB PRESET.** It restores the factory preset for the selected Pwr/Cab.

**RESET.** It restores the values to the general default values.

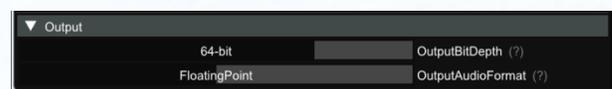
## The Renderer



Renderer window

The Renderer is provided to process an input wave file in OffLine mode. It collects all the controls described in the previous sections, plus you have the possibility to specify **input and output files**.

Use the **LOAD** and **SAVE** buttons to load and save Renderer presets. The **Import** button can take a specific panel setting from a MercuryRec plugin preset file. There is also an additional **Output** header which allows to specify the output wave file format.

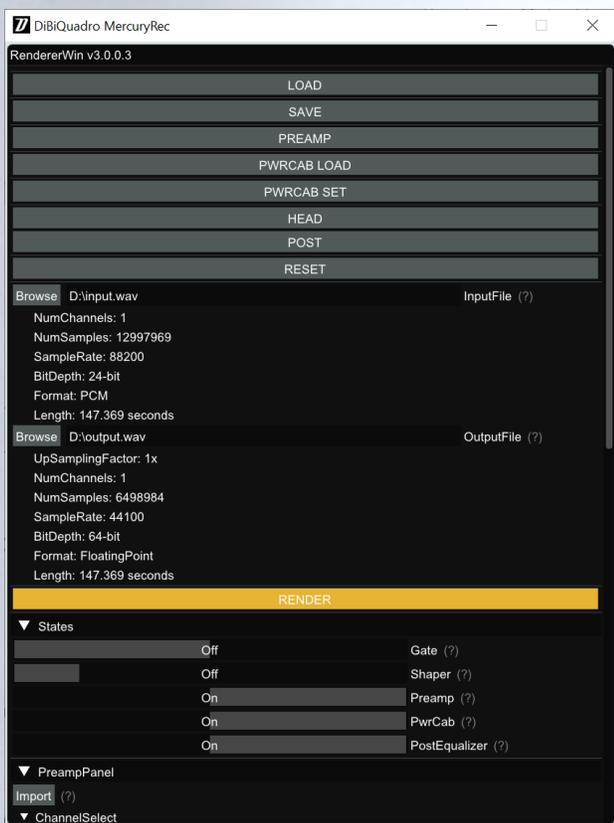


Renderer – Output header

**OutputBitDepth.** This is the number of bits of information in each output sample. It can be 16, 24, 32 or 64-bit.

**OutputAudioFormat.** It represents the output encoding type: PCM (Integer) or Floating Point.

The **RENDER** button will be **visible only** when an **existing input wave file** and a **valid output wave file name** have been specified.



Renderer – RENDER button

can be easily triggered in parallel by a Windows batch file.

To launch a render from the Command Prompt, first you need to create a preset for the Renderer. Then you need to execute the Renderer from the Command Prompt with “-c” option and to specify, in order:

1. the full path (absolute or relative path + name) of the Renderer preset;
2. the full path (absolute or relative path + name) of the input wave file;
3. the full path (absolute or relative path + name) of the output wave file.

Reminder:

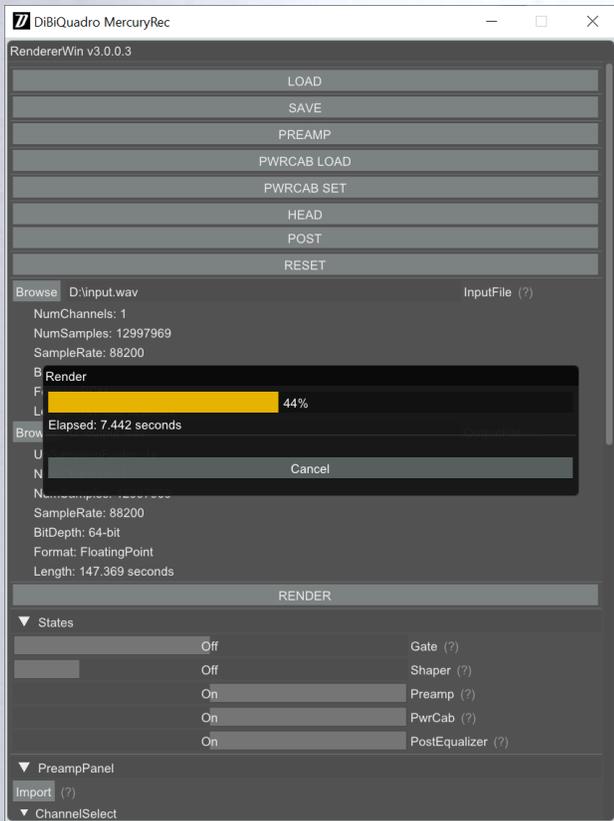
MercuryRecRenderer.exe -c presetFile.drp input.wav output.wav

```
C:\Program Files\Common Files\VST3\DiBiQuadro\MercuryRec\MercuryRecRenderer.exe -c presetFile.drp input.wav output.wav
```

Example of Prompt command

## Command Line Mode

The Renderer can be executed in command line mode. With this functionality, multiple rendering sessions



Renderer – Render in progress

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*E=mc<sup>2</sup>*