

DiBiQuadro



Mercury 1

USER MANUAL

Thanks for purchasing DiBiQuadro Mercury1. This is the result of a meticulous engineering design and passion for perfection.

Please take your time to read carefully the content of this manual and the "DiBiQuadro - Amp Simulators Common Features" guide before using the plugin and the renderer.

Where Warmth meets Power

Mercury1 is a software simulation that distills the spirit of a legendary early American tube amp into its most expressive form: a single-channel design where everything is driven by your hands, your guitar, and your touch.

At the heart of Mercury1 is a beautifully voiced gain structure that moves effortlessly from pristine, glassy cleans to smooth, singing overdrive. It reacts to your picking dynamics and guitar volume with remarkable sensitivity—roll back for clarity and sparkle, dig in for rich harmonic saturation and fluid sustain, perfect for lyrical lead playing inspired by timeless expressive tones.

Two distinct inputs are not just different levels, but feature independent input circuits with their own gain structure and feel. The input 1 delivers full sensitivity and saturation potential,

while the input 2 offers more headroom, a tighter response, and a cleaner overall character.

Mercury1 also features a built-in reverb, carefully tuned to complement the amp's natural voice. From subtle ambience to deeper spatial textures, it enhances your tone without overpowering its character.

The cabinet section includes three distinct speaker voicings and two cabinet configurations: a focused, immediate 1x12 loaded with a C90 speaker, and a more expansive 2x12 setup featuring two complementary speakers—a CL80 for smooth, creamy lead tones and a legendary ALT for a beautifully open top end.

The 2x12 can be used in both open-back and closed-back configurations, each offering a unique tonal character. The open-back design delivers a wider, more airy sound with enhanced spatial dispersion and a softer low-end response—ideal for clean tones and expressive, room-filling textures. The closed-back option, on the other hand, provides a tighter, more focused response with greater low-end punch and projection, making it perfect for high-gain tones and articulate lead work.

Mercury1 is about connection—between player and sound, nuance and expression. One channel, no compromises, just pure tone.

GUI Controls

INPUT 1/2

Input 1 provides the highest gain of the two inputs. Inputs 1 and 2 use two different circuits, featuring different numbers of gain stages and independent circuit parameters.

BOOST

Adds an extra gain stage for more saturation, sustain, and compression, delivering a thicker and more driven tone.

BRIGHT

Enhances high frequencies and pick attack, giving the sound more clarity, sparkle, and definition.

REVERB

Adjusts the amount of built-in spring reverb, adding depth and ambience to the sound.

MID BOOST

Increases midrange presence and gain, creating a fuller, more focused tone that helps leads stand out.

VOLUME 1/2

They set the level of the preamp stages. They can overdrive the circuit, producing classic tube saturation and distortion. Volume 1 and Volume 2 operate with Input 1, while only Volume 2 operates with Input 2.

BASS, MID, TREBLE

These knobs shape the tone by adjusting the low, midrange, and high frequencies respectively.

REVERB (knob/button)

The Reverb button activates the Reverb effect. It adds the classic spring reverb effect (space and ambience). More options are available by pressing SET button including the type of Spring Reverb (Basic or Standard) and the routing mode (MonoToMono or MonoToStereo).

Preamp Circuits

Two independent circuits are available, each with its own sets of parameters.

Input 1

Higher gain path with four cascaded preamp triode stages. This signal path

pushes the preamp into earlier saturation, producing a more compressed, harmonically rich overdrive with strong midrange focus and pronounced tube clipping characteristics.

Input 2

Lower gain path using fewer preamp stages. It offers more headroom and a cleaner response, with greater dynamic range and a more open, less compressed tone. It retains clarity at higher input levels and responds more linearly to picking dynamics.

NonLinearSolver

Tab to modify the preamp triodes characteristic. Please refer to the "DiBiQuadro - Amp Simulators Common Features" manual for more details.

For some ideas on how to tweak please refer to the following link:

<https://dibiquadroaudio.com/circuits-tips-tricks/>

Pwr/Cabs

Mercury1 comes with 19 selectable Pwr/Cabs:

Mercury1_000_100W_6L6
Mercury1_001_100W_6L6_M112_1_C90_57_B73_A_O
Mercury1_002_100W_6L6_M112_1_C90_201_B73_A_O
Mercury1_003_100W_6L6_M112_1_C90_421_B73_A_O
Mercury1_004_100W_6L6_M112_1_C90_57_B73_B_O
Mercury1_005_100W_6L6_M112_1_C90_201_B73_B_O
Mercury1_006_100W_6L6_M112_1_C90_421_B73_B_O
Mercury1_007_100W_6L6_M212_1_ALT_57_B73_O
Mercury1_008_100W_6L6_M212_1_ALT_201_B73_O
Mercury1_009_100W_6L6_M212_1_ALT_421_B73_O
Mercury1_010_100W_6L6_M212_1_ALT_57_B73_C
Mercury1_011_100W_6L6_M212_1_ALT_201_B73_C
Mercury1_012_100W_6L6_M212_1_ALT_421_B73_C
Mercury1_013_100W_6L6_M212_2_CL80_57_B73_O
Mercury1_014_100W_6L6_M212_2_CL80_201_B73_O
Mercury1_015_100W_6L6_M212_2_CL80_421_B73_O
Mercury1_016_100W_6L6_M212_2_CL80_57_B73_C
Mercury1_017_100W_6L6_M212_2_CL80_201_B73_C
Mercury1_018_100W_6L6_M212_2_CL80_421_B73_C

The power amp is rated at 100 watts and uses four 6L6 tubes.

Two cabinet configurations were sampled:

- A 1x12 open-back cabinet with a C90 speaker
- A 2x12 cabinet loaded with two speakers: ALT and CL80

Three classic microphones were used: SM57, 201, and MD421. A high-end microphone preamp was used: the B73, a reference-class preamplifier that has set a standard in both vintage and modern recording workflows.

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