



DiBiQuadro

Virgo

Super Clean
Guitar Amp

Version 1.0



Thanks for purchasing DiBiQuadro Virgo. Please take your time to read carefully the content of this manual before using the plugin.

Overview

Virgo is a library for Nebula 4 / Nebula 4 Player based on what has truly established itself as the “industry standard” for combo/self-contained all-tube guitar amplifiers. The sampled model is a '65 reissue of the version often referred to as “Blackface”, used on thousands of recordings and countless live performances, proven to be incredibly versatile not only for guitar but also bass, keyboards, vocals, accordion, electric violin and many other electrified instruments.

The main core of Virgo has been sampled with top class cables/gear to obtain the greatest path possible. Additionally, two pristine reverbs - a Room (default) and a Rich Plate - have been taken from a highly acclaimed digital hardware reverb unit; then, two different flavors of vintage tremolo – mono and stereo – have been added to satisfy your need for surf music and significantly multiply the sound possibilities; finally, a built-in limiter completes the chain.

Three output modes are available. The power amp provides pristine clarity, great dynamics and a larger than life frequency response: this option sounds great by itself; however, if you want to use your own IRs, this is the starting point. The 57 and 201 options give you two great dynamic microphones, masterfully placed in front of the open-back cabinet to get the fullest tone possible. The sweet spot has been determined by injecting pink noise in the amp and by minimizing phase cancellations on the best sounding speaker of the combo.

Like in every our product, each band and preamp has been sampled without any converter / “calibration bias” phase distortion. This allows to overlap the effect of more bands without adding unwanted coloration, reaching a new level of match with hardware for unparalleled results, even compared to hardware itself. This methodology is named SP Tech.

The Best All-Tube Clean Amplifier Plugin

We claim Virgo is THE best clean all-tube amplifier plugin on the market so far. Virgo's heart is a pre/power amp section made up of 10 harmonics x 30 levels = 300 different FIR impulses (in High Definition mode). This represents a completely different solution from the usual algorithmic / IIR based plugins and the most accurate existing reproduction of the original amp, which naturally can be felt both during playbacks and “under your fingers” while playing in low-latency mode. Incredibly, Virgo shows surprising and unexpected increased dynamics even compared to the “real thing”!

Specifications

| | |
|----------------------|--|
| Pre/Power Amp | 10 harmonics x 30 levels (300 FIR impulses in Hi Definition mode) |
| Output Modes | PWR (Power Amp 4x6L6s direct), 57 - dynamic microphone in '73 preamp, 201 - dynamic microphone in '73 preamp |
| Limiters | Fast Attack, Infinite Ratio, Hard Knee, Stereo Linked |
| Reverb | Room (default) - Rich (switch selectable) |
| Tremolo | Mono (default) - Stereo (switch selectable) |
| SP Tech | Implemented |

User Interface



INPUT: it adjusts the amount of harmonic distortion without affecting the overall output level; avoid settings that may cause unwanted harmonic distortion or digital clipping.



CAUTION: be careful when setting In Trim higher than default and driving this plugin with very hot sources: this may cause unpleasant loud digital clipping!

OUTPUT: it adjusts the overall output of the plugin without affecting the tone when the limiter is deactivated; this control is placed **before** the limiter.

PWR: it selects the power amp output with no speaker; use this option by itself or as the source for an external IR speaker loader.

57: it selects the 57 microphone output.

201: it selects the 201 microphone output.

LIMIT: it activates the limiter section which is placed **after** the output section.

THRESHOLD: it decreases the threshold of the limiter from 0dB to -12dB when the limiter is activated.

MAKEUP: it is the makeup gain of the limiter; it affects the overall output of the plugin when the limiter is engaged.

MIX: it adjusts the balance between the dry sound going to the limiter and the output of the limiter; when set to max, you will hear only the output of the limiter; at minimum, it is like having the limiter deactivated.

TONE STACK: it enables the tone stack controls (**TREBLE, MID, BASS**): when disengaged, its controls are set internally to 5 and the **BRIGHT** is deactivated.

BRIGHT: when the TONE STACK is engaged, it significantly boosts the high mid / high part of the spectrum in the tone stack section.

REVERB: it enables the reverb: room reverb is activated by default; when **RICH** is engaged, the Rich Plate is selected. DRY and WET select the amount of dry versus reverb signal.

TREMOLO: it enables the tremolo effect: mono tremolo is activated by default; choose **STEREO** to obtain a stereo effect. DRY and WET select the amount of dry versus tremolo signal. **SPEED** increases the speed of the tremolo.

Regular mode versus Low-Latency (ZL) mode

Virgo has been tuned to work flawlessly on **reamping and mixing sessions** at any sample rate – 44.1KHz, 48KHz, 88.2KHz or 96KHz. However, enabling all its functionalities – particularly **REVERB, TREMOLO** and **LIMIT** – requires an important amount of resources. For these activities, just use the **regular “high-latency”** version of Virgo.

With some limitations – Only **TONE STACK** and **OUT** sections activated – and the proper configuration, Virgo ZL – **“low-latency” mode** – is suitable for playing in **real time** at **44.1KHz** or **48KHz**. We recommend these settings:

- Open “VIRGOZL.xml” with a text editor and set **FORCEOFFSET** tag to **23**:
 - `<FORCEOFFSET> 23 </FORCEOFFSET>`
- Set **ASIO latency** to **128 samples**.

Now you are ready to load Virgo ZL on your favorite sequencer, plug your guitar in and enjoy the sound.

New Revisions - Backward Compatibility

We cannot assure compatibility between new revisions and previous ones. Even presets are specific for a particular revision and not applicable to another. Anyway, before doing any upgrade we recommend making a copy of the settings by using Presets functionality on Nebula or a visual copy (e.g. Print Screen and save image file). In case of issues after upgrade it is possible to downgrade by selecting the desired revision on Aquarius and eventually restore old presets.



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