USING THE MB

Our philosophy is that as far as it is possible, using the plug-in should be exactly like using the real amplifier. Easy and straightforward. Consequently, the sound is adjusted with a number of knobs on the front panel of the plug-in, the same knobs as on the real amplifier. All relevant knobs on the amplifier are simulated, as is their functionality. Not to mention their sumptuous original looks.

In order to get the most accurate sound from the plug-in, the signal from your guitar should go through a line box or a preamp before it goes into the SONIC CORE card.

As with physical amps, you can use all your favorite stomp boxes and pedals with the plug-in, unless they are so powerful you risk burning your preamp. There are two aspects in which the plug-ins differ from the original amplifiers. We have added a Distance knob and normalized the volume output, as specified below. Both are major improvements that make the plug-ins more useful and practical.

The Distance knob was added because we did not only simulate the sound of the amp and speakers, but also the way of working in a studio. The knob simulates the position of the microphone in front of the speaker cabinet. Just like in a studio, you can move the mike from near to far field and back - continuously. No pre-set positions, you just tweak the knob from minimum to maximum to adjust the mike. This gives you all the flexibility of a full-scale studio set-up:

- If the Distance knob is set at minimum, the microphone is positioned off-axis in near field. This gives a slight roll-off of the high frequencies.
- With the Distance knob set in the middle (12 o'clock), the microphone is positioned in near field straight in front of the speaker driver. This setting gives the most "uncolored" sound, with lots of high frequencies.
- When the Distance knob is set at its maximum, the microphone is positioned in the far field, about three meters away from the cabinet.

The volume knob on a real amplifier goes from "very quiet" to "really loud and distorted", which isn't very practical on a computer recording system. In order to solve this, we have normalized the volume controls so that the output volume is nearly the same for all volume settings. But the distortion behaves exactly like it does on the real amplifier!

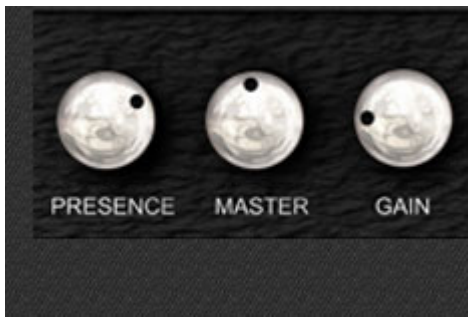
INTRODUCTION

The Mesa/Boogie is the fierce, sonic bulldozer, giving the awesome and uncompromising roaring sound of metal - quite literally.

This really isn't the most versatile amplifier on the market, as it produces the typically distorted high-gain sound of hard core metal. It's mean and powerful, and will suit you perfectly if you're the kind of person who has barbed wire for breakfast.

If you like the sound of Mesa/Boogie, you like your music loud. In order to satisfy any and all expectations on an unbeatable loudness, Dynatube™ MB includes a simulation of the typical Mesa/Boogie Recto Standard speaker cabinet.

DESCRIPTION



The Dual Rectifier is all about high-gain. While the original amplifier has a close to ridiculous amount of controls and knobs and whatnot, we have chosen to stick to the characteristics. We only model the most high-gain of the three channels, which has three modes ranging from the kind of hard that shellshocks the neighbors, to earthquake-like mayhem. After all, loudness is what you want when you buy Mesa, and Raw/Vintage/Modern is all you need.

And while we too like insane distortion, we have made sure to retain the excellent dynamics of the amplifier. You can even get clean sounds out of it, if that's what you really want.

The Bass, Mid and Treble knobs are the tone controls of the amplifier. The Gain knob basically corresponds to what is sometimes called Preamp Volume on some other amps. It also has a Master knob, which controls the volume going into the poweramp.

The Presence knob is interesting. In the Raw and Vintage modes, it controls the amount of treble in the poweramp. In the Modern mode, however, it controls the treble in the preamp, while the poweramp blurts out huge amounts of treble!
The first-rate microphone model included in the Dynatube™ MB allows full studio-like flexibility. With the Distance knob, it can be moved continuously between near and far field positions in front of the speakers. Moving the microphone has a lot of effect on the sound when it comes to the Mesa plug-in. The sound of the Mesa speaker stack is very directional. This means that as you change the position of the microphone with the Distance knob of the plug-in, the difference in sound will be amazing, especially in positions close to the speaker. All this is very characteristic of this Mesa stack, and thus faithfully modeled and simulated.

SPECIFICATION

The plug-in is based on the most high-gain channel of a Mesa/Boogie Three Channel Dual Rectifier. The amplifier has four 12AX7 tubes in the preamp, and one 12AX7 and four 6L6 tubes in the poweramp. The simulation includes a model of the Recto Standard slant closed back 4 x 12" Mesa/Boogie speaker cabinet, the natural choice of speaker for this amplifier.

On the actual amplifier, you can switch between using either two 5U4 tubes or Silicon Diodes. We're into tubes, so the simulated Dual Rectifier has the Rectifier select switch set to the "Tube" mode. We think it sounds better that way.

Technology :	Patented physical modelling technology.
Sampling Rate :	44.1kHz & 48kHz (internal oversampling)
Resolution :	32 bit audio paths externally, 64 bit floating point internal audio paths.
Inputs/Outputs :	1 Input/1 Output. Possiblility to bypass amplifier and/or speaker simulation for maximum flexibility.
MIDI :	Possibility to control all knobs via MIDI.
Latency :	Sample by sample.