



DSM

NOISEMAKER



User Manual

Introduction:

Congratulations for getting your hands on the **Omnicabsim Mini** pedal, the small brother of their famous Omnicabsim Deluxe cabinet simulator, praised by bass and guitar players worldwide.

As usual with DSM noisemaker's products, this super practical pedal is packed with a lot of features and easy to use layout in a small package that will fit on any pedalboard with a tight real estate. It features the Omnicabsim's most important controls of: Texture (High response), Cab Size and Resonance, allowing the user to get amazing cabinet tones in just seconds.

The Cab size switch options are Combo and Stack for Guitar use, and Fridge for bass use, getting that perfectly tight, punchy low end response on any situation and style

The Texture control lets you fine-tune the high frequency response of the virtual cabinet, which goes from super dark to extended range sparkle. On middle positions, the warmth and rich overtones of distortions are superbly voiced by its carefully designed filters.

But that's not all. This is really a miniature Power Amp + Cabinet combo in miniature. The Amp Gain knob emulates the complex overdrive characteristics of tube power amps. Crank it up and you get the smooth clipping, compression and extra midrange bite of a loud amp taken to its limits. This gives a whole new dimension to the omnicabsim concept. Not only you get the right frequency response to play direct, now you can get the right "feel", too.

Also, it features a Balanced DI XLR output for low noise direct performances, and a 1/4" output jack that can be set as a through output or effected output.

Powering up:

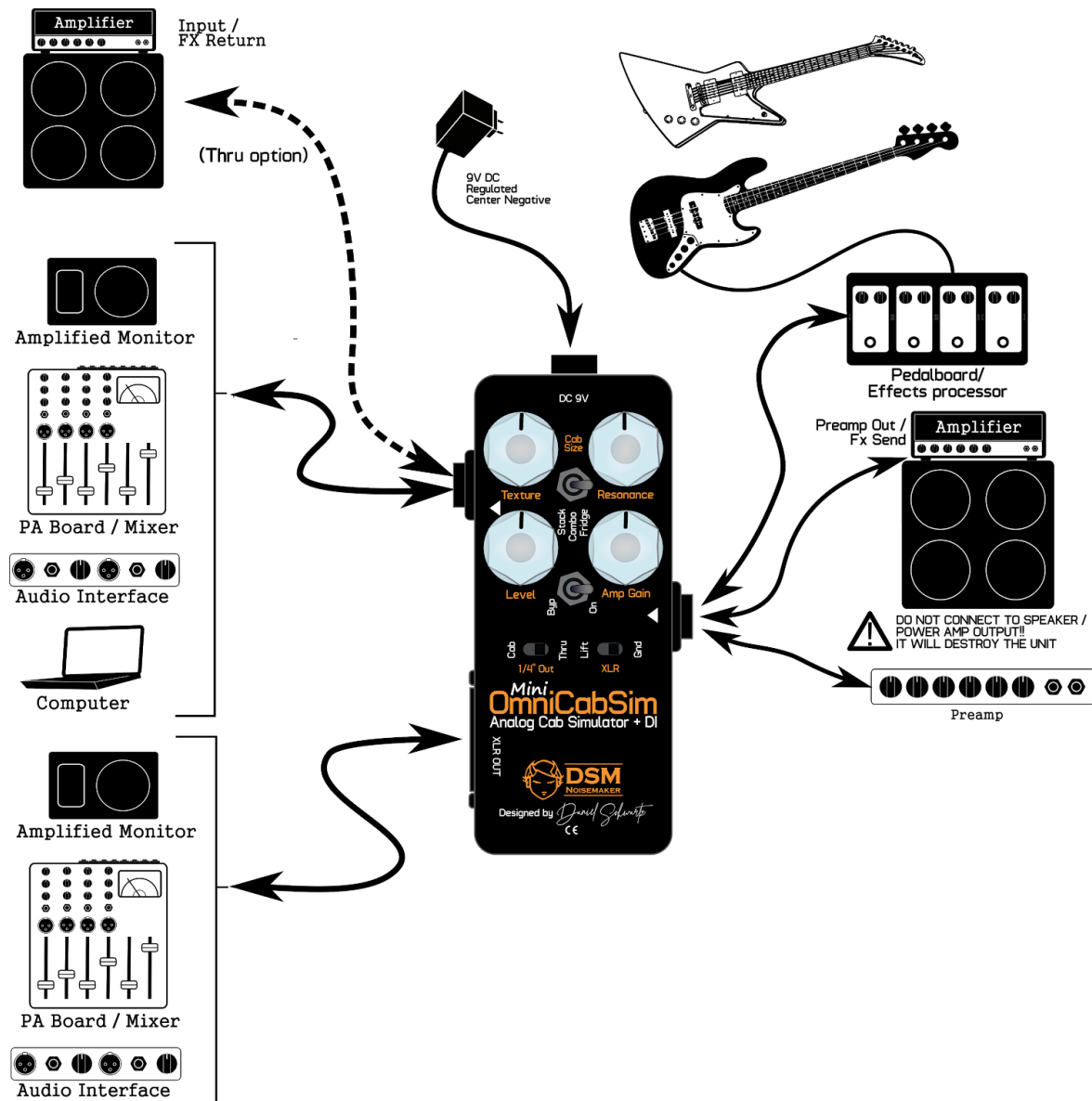
Before powering up the device, please make sure:

- Your power supply is **9v to 12v DC, center negative**, and has a nice and clean voltage. **Do not** use household cheap unregulated supplies not meant to be used with instrument pedals.
- The destination amplifier/board/interface is OFF or with the input level set at zero (or muted). If the Mini Cabsim is powered while the amp is on, it may make a WHOOMP sound as the internal capacitors charge. Other way is to set the output level at zero or bypass the pedal before powering up.

Connections:

The Omnicabsim MINI features:

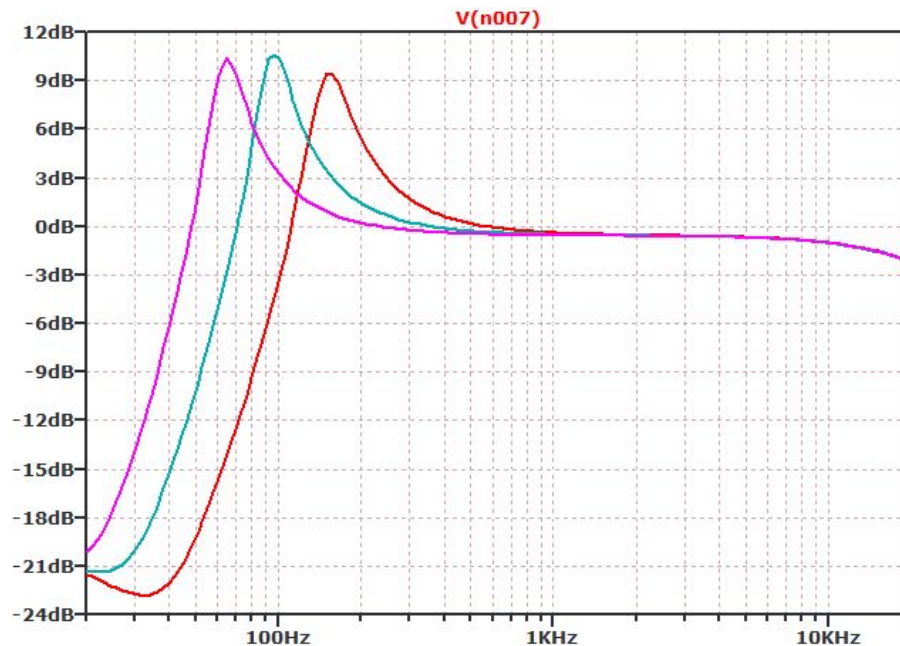
- **1/4" Input Jack:** Connect here the output from your pedalboard/ amp fx send, or just the instrument (for best results, a high output instrument, or a preamp is recommended)
- **1/4" Output Jack:** This output can be set to carry the Cabinet simulator signal or the Bypass signal.
- **XLR Output:** Active balanced output for direct inputs. This output will only carry the cabinet simulator signal (unless the pedal is bypassed).
- **DC Input:** As stated previously, use only a regulated 9V to 12V DC, center negative, 2.5mm jack power supply.



Controls:

Switches:

- **Bypass Switch:** Toggles between the effect and the input signal. *Note: Be aware that DI levels are lower than instrument/preamp level. The level knob will help you get the right DI signal level, but if you bypass the pedal, the level may be much higher.*
- **Cab size Switch:** Select 3 cabinet sizes:
 - **Stack:** 4x12 cabinet low end response with a peak resonance at 95Hz. All Rock and metal tones.
 - **Combo:** 1x10 combo with rich low mids centered at 160Hz. Great for blues and vintage tones
 - **Fridge:** 8x10 Bass monster with a peak resonance of 65Hz.



Cab Size Switch resonance peaks.

- **¼ output Switch:** Select the TR (¼) output function between the Cabinet simulation or the unaffected input signal. Great to send your unaffected signal to your guitar or bass amp (or DAW, for later reamping).
- **Ground Switch:** Connects and disconnects (Lift) the ground signal from the XLR cable shield. Use only if having ground loop issues.

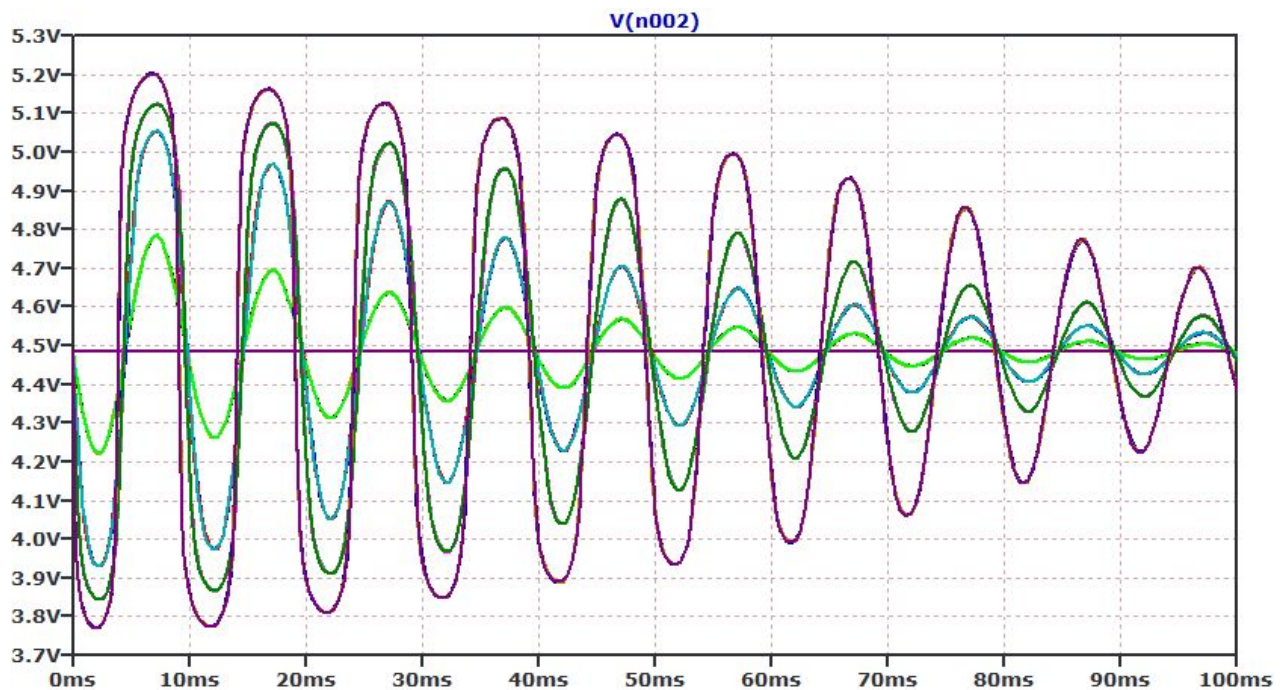
Knobs:

- **Level:** Sets the master output level of the effect.
- **Gain:** Emulates the gain of a power amp, starting from linear behaviour to slight compression up to soft clipping. It also considers the output transformer core saturation, limiting the lows and highs as the gain raises.

The amount of clipping is also dependent on the input signal level. If the input signal is too high, it will distort too soon, if it's too low, it may never distort. Carefully choose the gain and set the input level (the output level of the previous device) to get the desired clipping behaviour. As a rule of thumb, set the level knob at 75% and the gain at 50% and you should get about unity compared to the bypassed signal. Adjust the input level if there's too much difference.

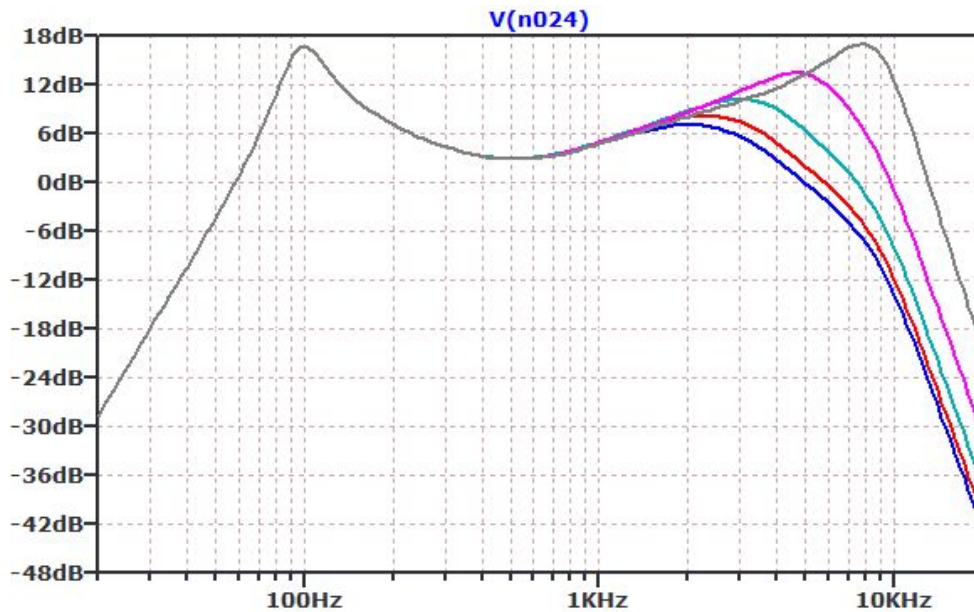
For high gain guitar tones, lower Amp Gain levels works best for tighter tones. For low gain (like OD's or bluesy tones) a higher Amp Gain will give you that extra attack and grit of tube power amps.

For Bass, the amp gain set at 50-75% will work as a hard limiter, very nice for enhancing those slaps attacks.



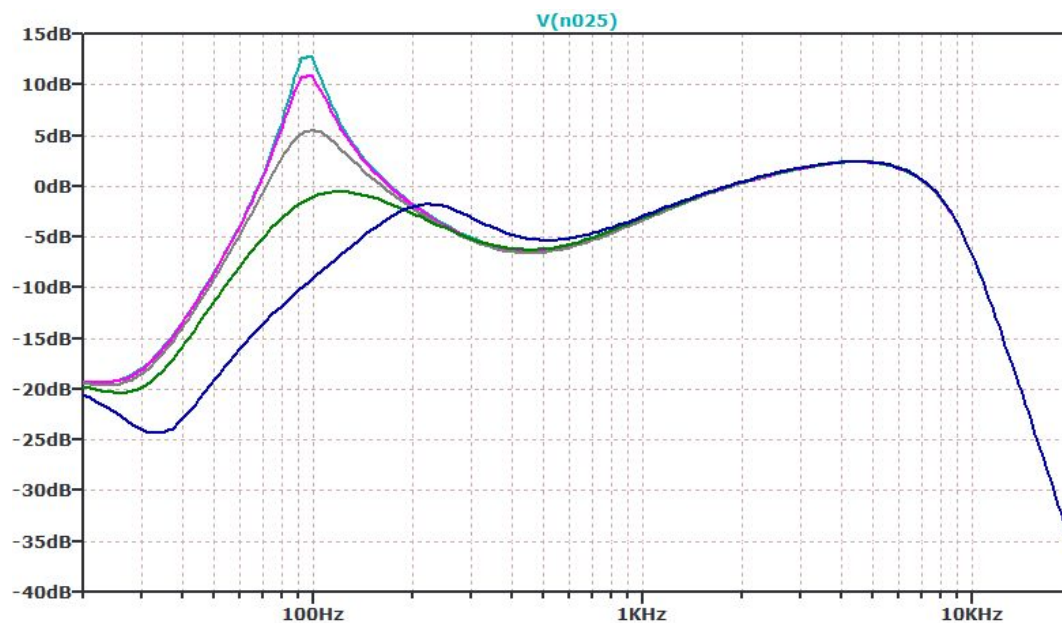
Clipping and limiting behavior of the Amp Gain Knob

- **Texture:** The texture controls the shape and response of the high end. It models the variety of sharp low pass filters naturally made by speaker's inductance and reactance. You can precisely set the amount of high end fizz by turning this knob. It can make the nastiest fuzz sound like velvet if set right.



Texture Knob range.

- **Resonance:** This knob controls the amount of resonance of the cabinet. Open back cabinets tend to have less resonant lows than closed backs. Also, bigger cabinets have higher resonance levels. The right amount of resonance will depend of the amount of low end coming from the input signal. Set until you feel the lows are as tight or loose as you want. On lower levels it will work as a low cut filter.



Resonance control range

Technical Specs:

- Size (cm): 3.5w X 10.8h X 4.5t
- Weight: 180gr.
- Input Impedance: 200K Ohms
- Output impedance:
 - Out: 1k Ohms
 - XLR: 100 Ohms
- Power Consumption: 20mA

Always use a good quality power source. Regulated 9v DC, center negative is recommended. Avoid cheap switching or poorly filtered power supplies.

EMI and EMC emissions:

The manufacturer claims that the above product fulfills the requirements as set by EN55013, EN55020, EN60555-2, EN60555-3, RoHS, WEEE. EMC / EMI This equipment has been tested and found to comply with the limits for a Class B Digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help

Warranty:

All of our products have a 2 year warranty covering production defects or malfunctions. If you have any issue with your unit, please contact your dealer or contact us at info@dsmnoisemaker.com