

DSM HUMBOLDT
ELECTRONICS



SIMPLIFIER DLX

ZERO WATT DUAL CHANNEL & REVERB STEREO AMPLIFIER



This is a moment to celebrate another milestone for us.
Since our beginning, we are here, to explore and bring you new universes of sounds.

After creating the amazing Simplifier, we decided to challenge ourselves again, beyond any limits. Evolving, to something we believe is the epitome of the ultimate musicians tool.

Because sailing in unknown waters, is what defines the human nature, today, we are coming back from that journey to present you, the Simplifier DLX.

Reach out this exceptional creation, and begin to surf a sea of sonic possibilities
Because analog will stand

Jano Acevedo
CEO & Founder

After 15 years of work the Simplifier Deluxe offers the world's finest all analog 0 wt dual channel amp, with cab simulator, multi-stage reverb, and ultimate connectivity options.

With this device, we want to bring musicians, endless boutique sound possibilities, flexibility and extreme portability.

The SIMPLIFIER DLX, also carries an ultra connectivity platform. As an example, you can use it as a 2-channel stereo amplifier, or 2-parallel amplifiers for a full stereo signal chain.

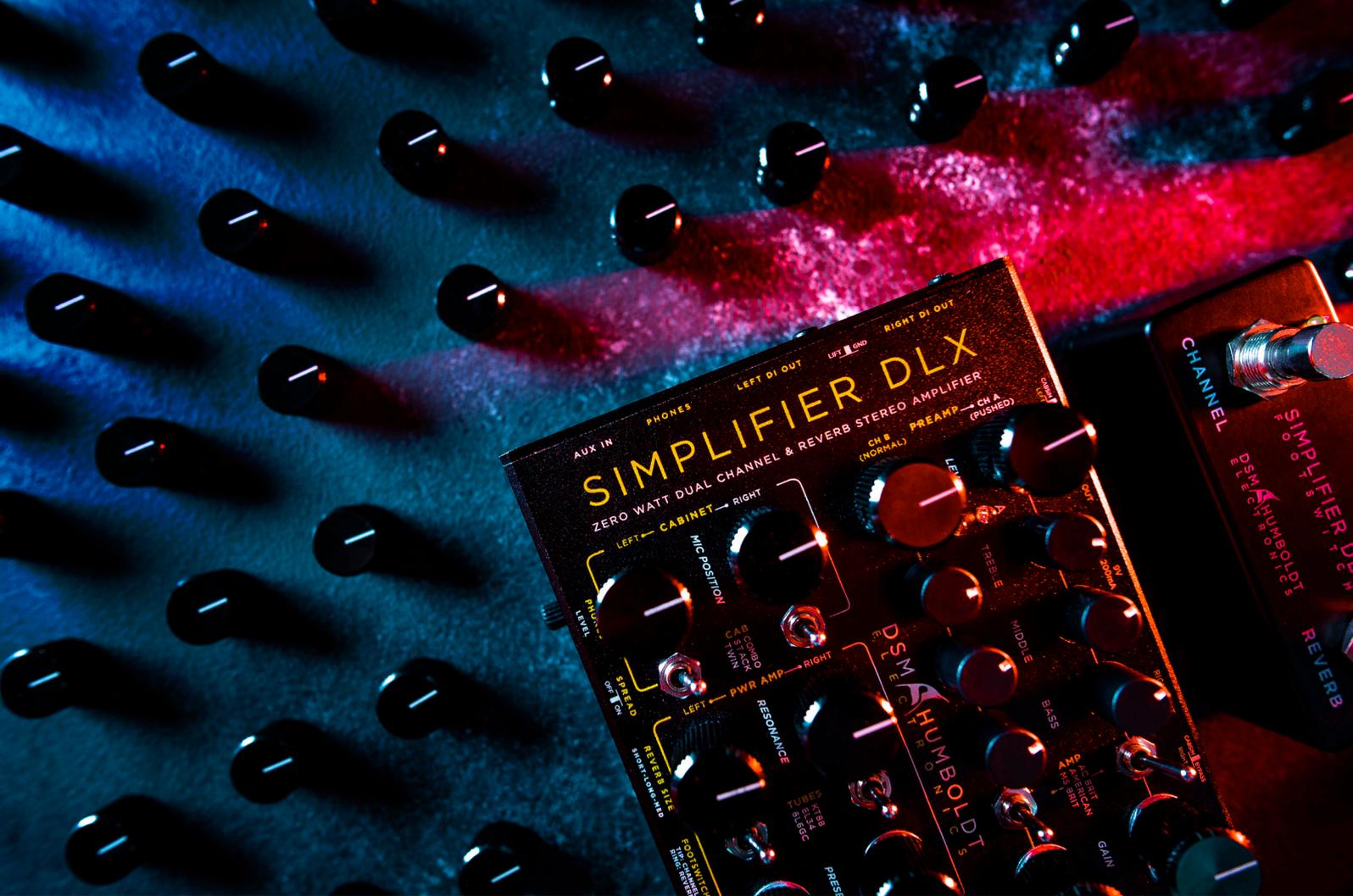
You can even connect 2 guitars at the same time, each with its own amp and fx loop.

Daniel Schwartz M.
CTO & Founder



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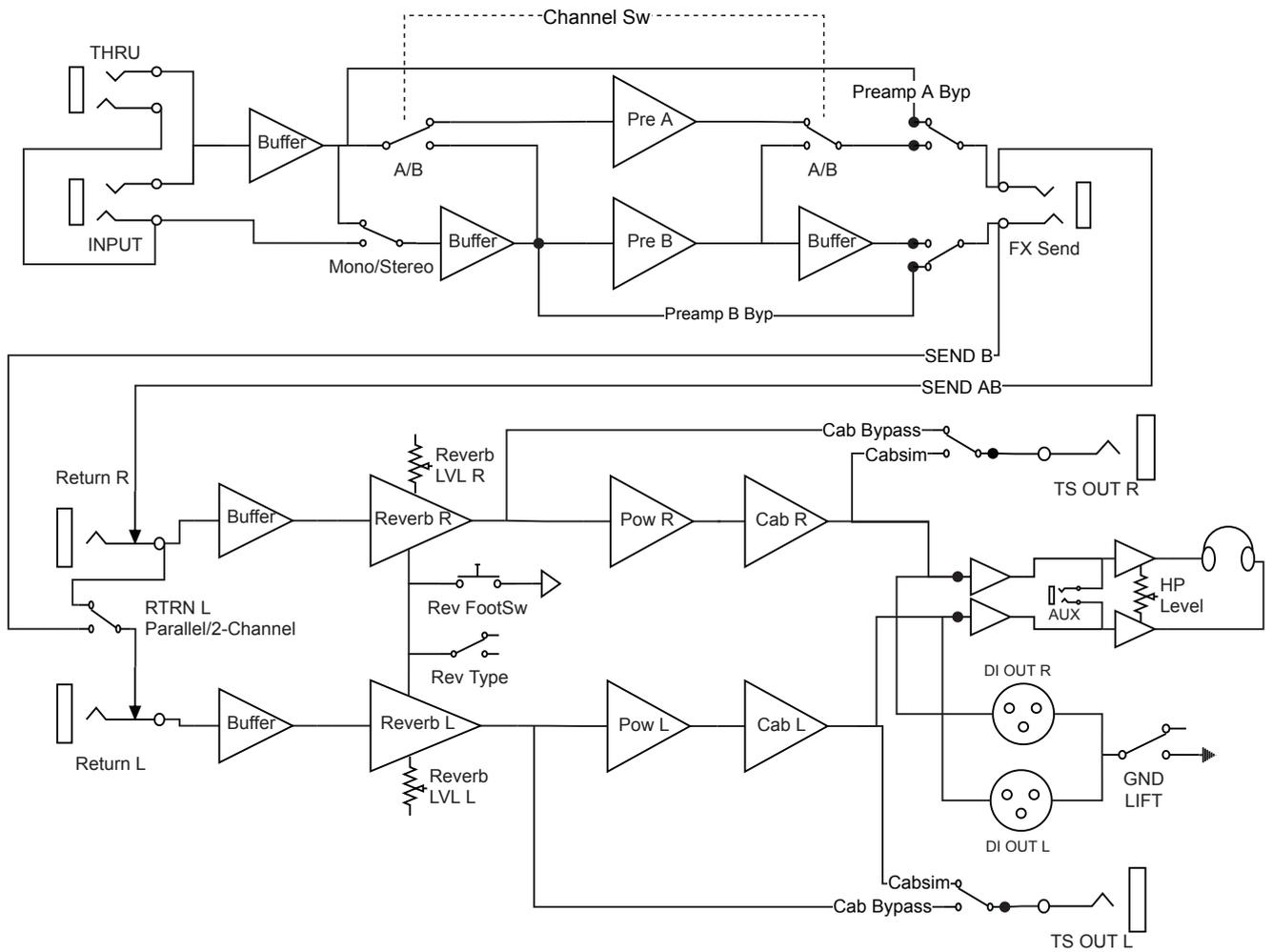
MAIN FEATURES

The Simplifier DLX is a stereo, analog, zero-watt guitar amplifier with stereo reverb, fully packed with routing and tone sculpting options.

These features include:

- Stereo TRS input
- Stereo TRS thru outputs
- 2 preamps with 3 amp types and 3 gain modes, each.
- Preamps can be used as a 2-channel amp, or in parallel for full stereo signal chains.
- Stereo FX loop, with stereo TRS send jack, and two independent return jacks.
- Stereo Reverb with 3 modes (Room, Ether and Plate) and mix for each channel.
- Power amp simulation with presence, resonance, and tube type for each channel.
- Cabinet simulation with cab type and mic placement for each channel.
- Two Balanced DI outs with ground lift.
- Powerful headphone amplifier with volume control and aux input.
- External footswitch (included) for channel and reverb on/off, compatible with external TRS controllers.
- Spread switch for widening the stereo imaging or correcting phase issues.

SIGNAL FLOW SCHEMATIC





TRS INPUT JACK

INPUT & INPUT MODE

The Simplifier DLX features a Stereo TRS input jack with mono and stereo modes.

For standard input mode, set the INPUT MODE switch to MONO. In this mode, only the TIP of the plug is considered and sent to both preamps, as a regular amp.

Input Mode

For dual input, set the INPUT MODE switch to Stereo. This will enable the RING signal and route the Tip to Preamp A, and Ring to Preamp B.

NOTE: Use this mode with channel A selected. If the channel is switched to B, both signals will mix into channel B.

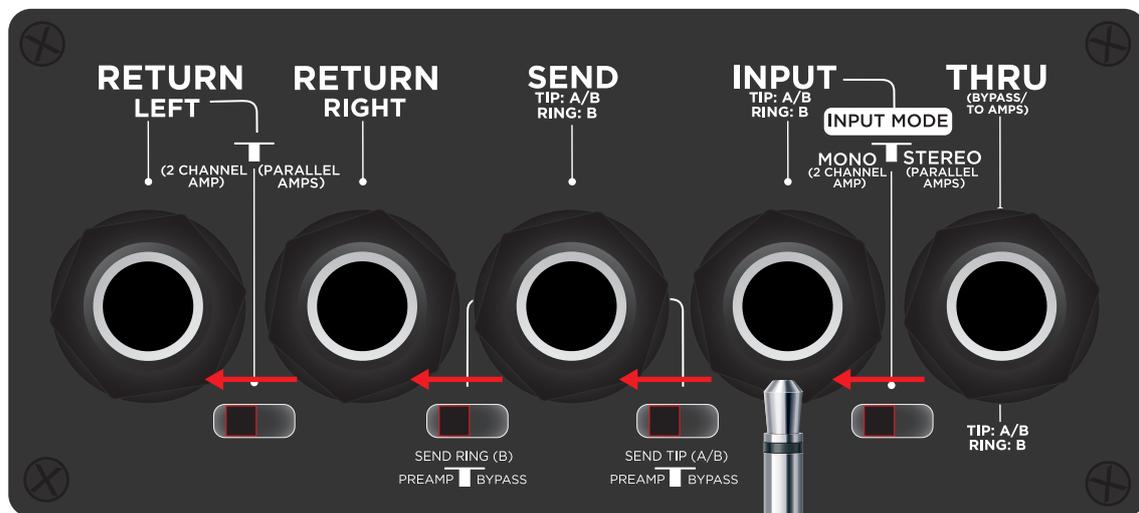
ROUTING OPTIONS: INPUT

MONO INPUT, TWO-CHANNEL STEREO AMP

EXAMPLE APPLICATION



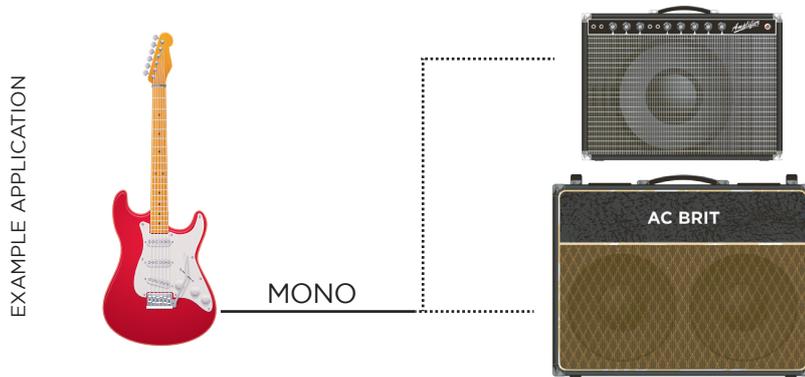
To use it as a typical 2-channel amp with a mono input, set the panel switches as follows:



NOTE: If using the FX loop in stereo (using a TRS for the SEND signal) the RING will have channel B only, and the TIP side will select A or B.

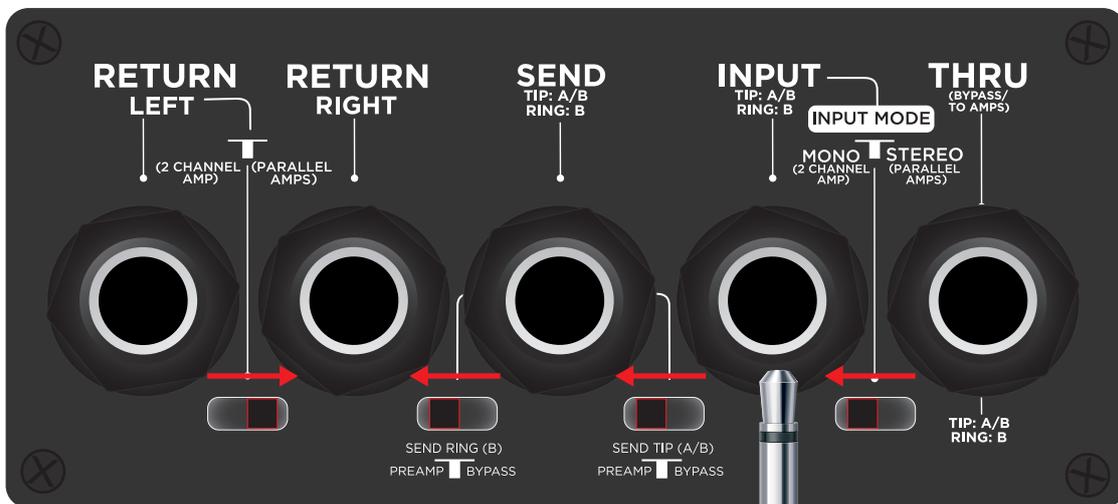


MONO INPUT, PARALLEL AMPS



In this configuration, you can use a mono input, and each preamp channel will be routed to each AMP side, resulting in a stereo parallel amplifier.

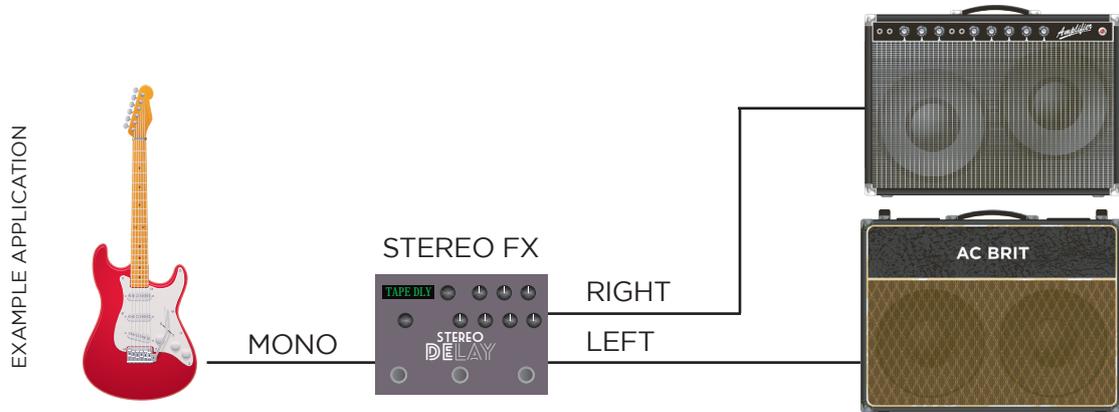
Select Channel A (red light) for this configuration.
You will have channel A on the Right side, and Channel B on the left side.



NOTE: This configuration works only if the FX loop is empty. Use a stereo FX LOOP routing (Stereo TRS send, R+L returns) to get parallel amps if using effects on the loop.

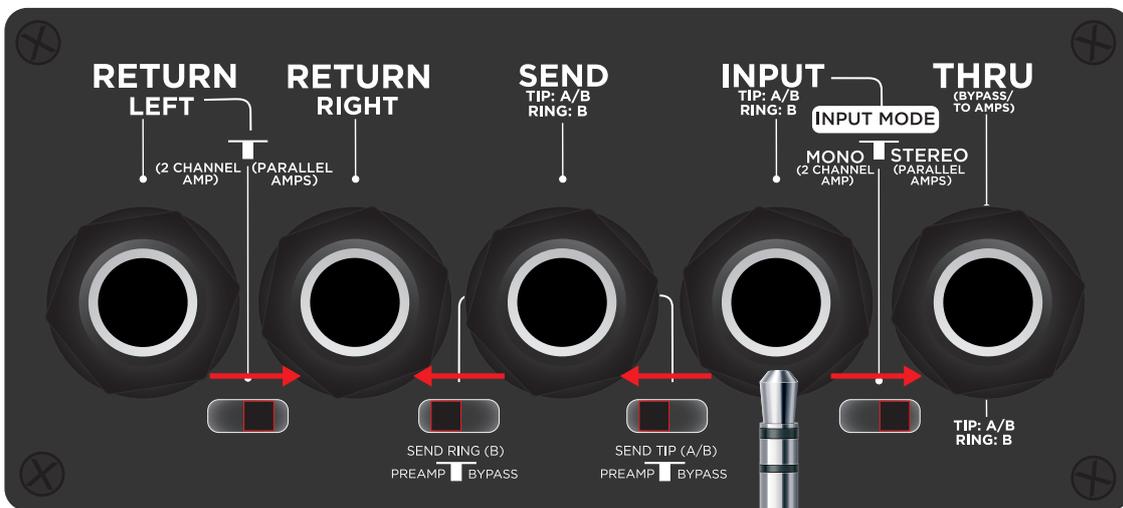
NOTE 2: If the preamp channel is switched to B, both sides will have channel B preamp signal.

FULL PARALLEL AMPS



In this configuration, you can use a stereo input, from a stereo effect, different drives per each channel, or even 2 different guitars to play a duo. Select Channel A (red light) for this configuration.

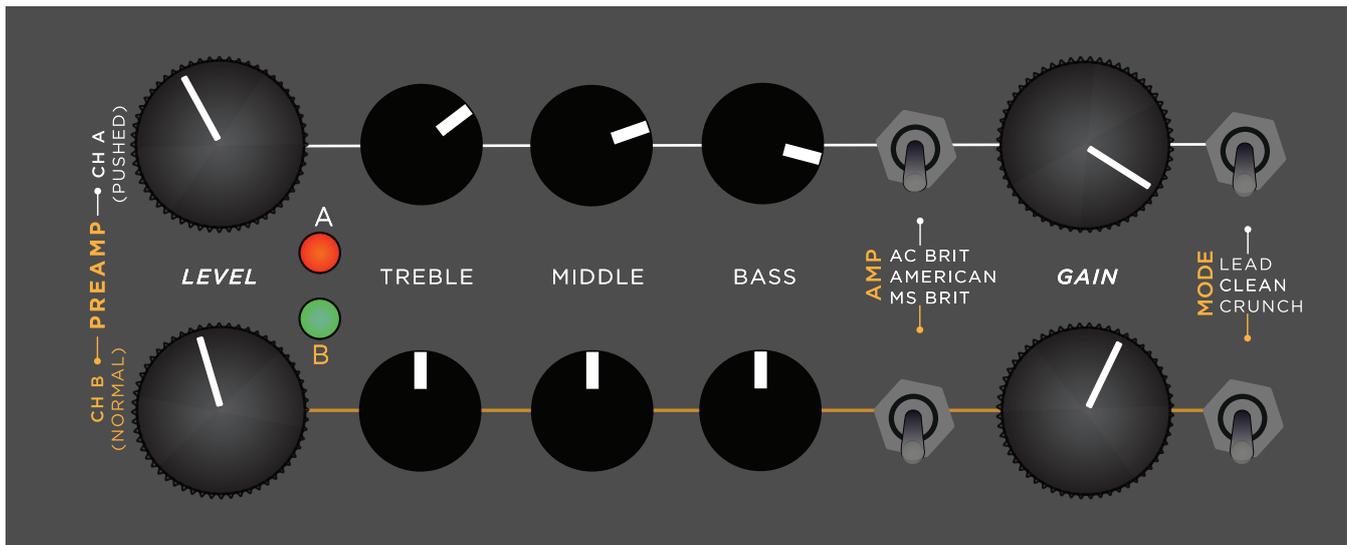
Use a Y cable (*compliment Y cable included) to connect both signals. The TIP will go to Channel A, and Ring to Channel B.



NOTE: Use a stereo FX LOOP routing (Stereo TRS send, R+L returns) to get parallel amps if using effects on the loop.

NOTE 2: If the preamp channel is switched to B, both sides will have channel B preamp signal. Both inputs will be mixed into channel B.

PREAMP MODULES



The Simplifier DLX features two state of the art, low noise, and ultra versatile pre-amps that go from ultra clean “American” style up to fire-breather “MS Brit” hi-gain chunk.

Both channels are very similar but not equal. **Channel A (“PUSHED”)** adds the asymmetric clipping typical of tube phase splitters, adding extra harmonic complexity and more aggressive feel at high gain, great for lead solos and pyrotechnical rhythm styles.

Channel B (NORMAL) is sweeter and rounder, best for clean to high gain rhythm work without too much sizzle.

At low-mid gains, both channels behave identically.

Each channel features the following controls:

GAIN MODE

Selects the following gain modes:

CLEAN The lowest gain, higher headroom mode. It behaves just like the original amps stock, where some gain cranking results in pleasant compression and overdrive.

CRUNCH Mid gain with some extra grit, like a boosted amp.

LEAD Focused High gain like hot-rodded amps.

GAIN KNOB: Sets the gain/overdrive of the channel. While on **LEAD** mode, the last 10% of the turn adds a **mid boost**.

The Gain range is very large on all modes, even on Lead mode, you can get a clean tone if turned down enough.

AMP TYPE

Selects the following Amp Types:

AC BRIT: Classic AC30 sparkly and three-dimensional sound. A true British heritage since the 60's.

AMERICAN: Classic blackface deluxe sound. Sweet and dynamic with a balanced response. By far the most used amp on studio recordings.

MS BRIT: Classic clean-to-crunch vintage Plexi style amp. The sound that defined rock music.

TONE STACK (TREBLE - MID - BASS)

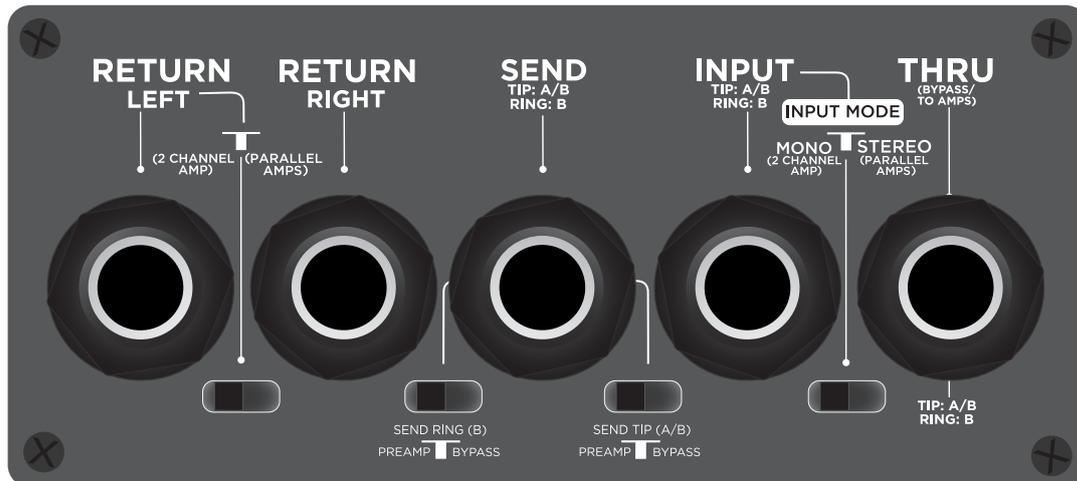
A key part of a tube amp sound and response is the tone stack behavior. The tone stack on the Simplifier is a genuine configurable three band classic amplifier topology, keeping the same feel, response and interaction of the original amp.

LEVEL

Sets the volume level of the respective Channel.



FX LOOP



The Simplifier DLX features a stereo effects loop with multiple options, enabling to bypass each preamp, or selecting Parallel mode or 2 Channel mode when nothing is connected to the Left return input.

FX SEND

The FX send is a **TRS jack (STEREO)**, where the **TIP** comes from Preamp **A or B** (whichever is active by channel switching), and **RING** comes from **Preamp B only**. You can use a **mono cable** for 2-channel preamp use, or stereo cable for full stereo parallel setup.

PREAMP BYPASS SWITCHES

You can Bypass each preamp at the FX send point by using the mini switches under the jack. You can use these switches if you want to use an external preamp. ***Bypassing the Preamps without a proper PreAmp may result in very bad tone. We recommend to keep it always in preamp position.**

FX RETURN R

The FX Return R jack is the input for the Right channel Reverb, Power Amp and Cabinet Simulator path.

FX RETURN L

The FX Return L jack is the input for the Right channel Reverb, Power Amp and Cabinet Simulator path.

2 CHANNEL AMP/ PARALLEL AMPS SWICHTH

If nothing is connected into the Return L jack, you can select “2 channel mode”, where the signal is taken from the Channel switching output, or “Parallel mode”, where is taken from Channel B.

- Use “2 Channel” mode if you want to use the Simplifier DLX as a 2-channel amp with stereo power amps.
- Use “Parallel” mode if you want to use a true stereo signal path, or 2 amp models in parallel.

NOTE: If a plug is connected to the Return Left jack, this switch will be defeated.

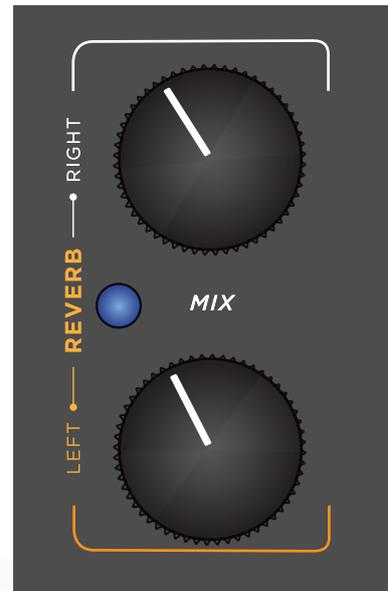
REVERB

The Simplifier DLX integrates a stereo digital reverb with mix control for each side, and 3 modes of reverb:

ROOM: Short and warm decay that recreates the natural sound reflections of a ballroom.

ETHER: Very long and Spatial reverb. Conceived for ambience design purposes, this reverb is a perfect companion from open clean chords to heavily distorted “shoegaze” tones.

PLATE: Mid length decay that recreates the natural sound reflections of a small venue.



REVERB MODE SWITCH



POWER AMP SIM

This stage is an accurate approximation of the interaction between the power tubes, output transformer and global feedback, which produces a particular frequency response for different tubes and speakers.

This stage can be tailored by **PRES-ENCE** and **RESONANCE** controls, and select between **6L6**, **EL34** and **KT88** power **TUBES** response.



CABINET SIM



Tweakable Cabinet simulator that takes the heritage and experience of ©DSM Noisemaker developing the most useful and innovative cabsims of the market. You can easily dial two independent cabinet simulators panned LEFT - RIGHT with **MIC POSITION** controls that respond as a real **CENTER/OFF AXIS** microphone position adjusting the precise amount of high-end roll off you look for.

A three way toggle switch allows you to choose independent **CAB STYLE** for each side. **1x12 Combo**, **2x12** or **big 4x12** cabinet simulations that you can combine with any of the 3 preamps per channel, adding an extra dimension to your sound development.

OUTPUTS



BALANCED DI OUTPUTS (XLR)

RIGHT AND LEFT BALANCED DI:

Low Impedance (150 Ohms) **XLR** outputs for left and right signals, with **Ground Lift**. These outputs carry the final output with cabsim always **ON**.

NOTE: The DI outs can withstand phantom power voltage without damage, but it will affect the quality of the sound, mainly causing low-end distortion and/or lack of bass frequencies. Make sure to have Phantom Power Off before using the unit.



1/4 UNBALANCED OUTPUTS (TS)

RIGHT AND LEFT 1/4 UNBALANCED:

Unbalanced **TS outputs** for left and right signals. You can Bypass the cabinet simulation on each side with the **“Cabsim Bypass” switch**. If Cabsim is Bypassed, the signal will include Preamp + FX loop + Reverb stages.

NOTE: If Cabsim is bypassed, a loss of volume is normal, as the cabsim stage adds about 9dB of boost to the preamp stage.



THRU (BYPASS/TO AMPS)



TIP: A/B RING: B

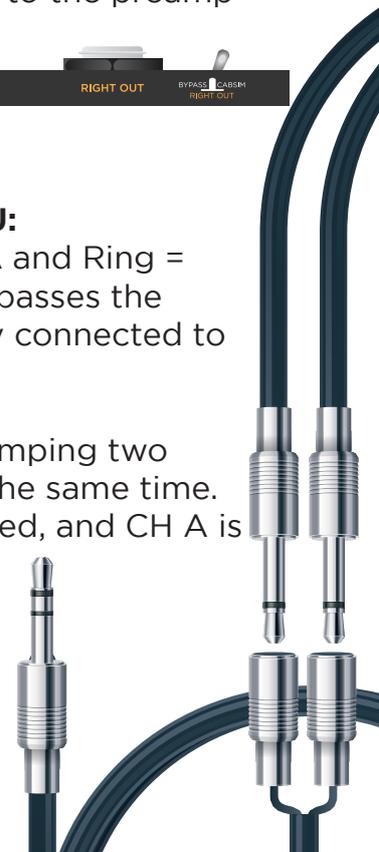
THRU OUTPUT (TRS STEREO)

RIGHT AND LEFT 1/4 THRU:

TRS Jack with Tip = Input A and Ring = Input B. Through output bypasses the whole unit by being directly connected to the inputs.

NOTES: Very useful for reamping two channels or two guitars at the same time. Channel B through is buffered, and CH A is hardwired.

**Use a TRS cable to enable Stereo output*



HEADPHONE AMP



AUX IN

The unit includes a powerful 135mW stereo headphone amplifier with stereo **AUX input**, for those silent late night practice sessions, or even in-ear monitoring.

The Amplifier works best with Headphones between 32 and 96 Ohms.



 **PHONES OUTPUT**
AUX IN

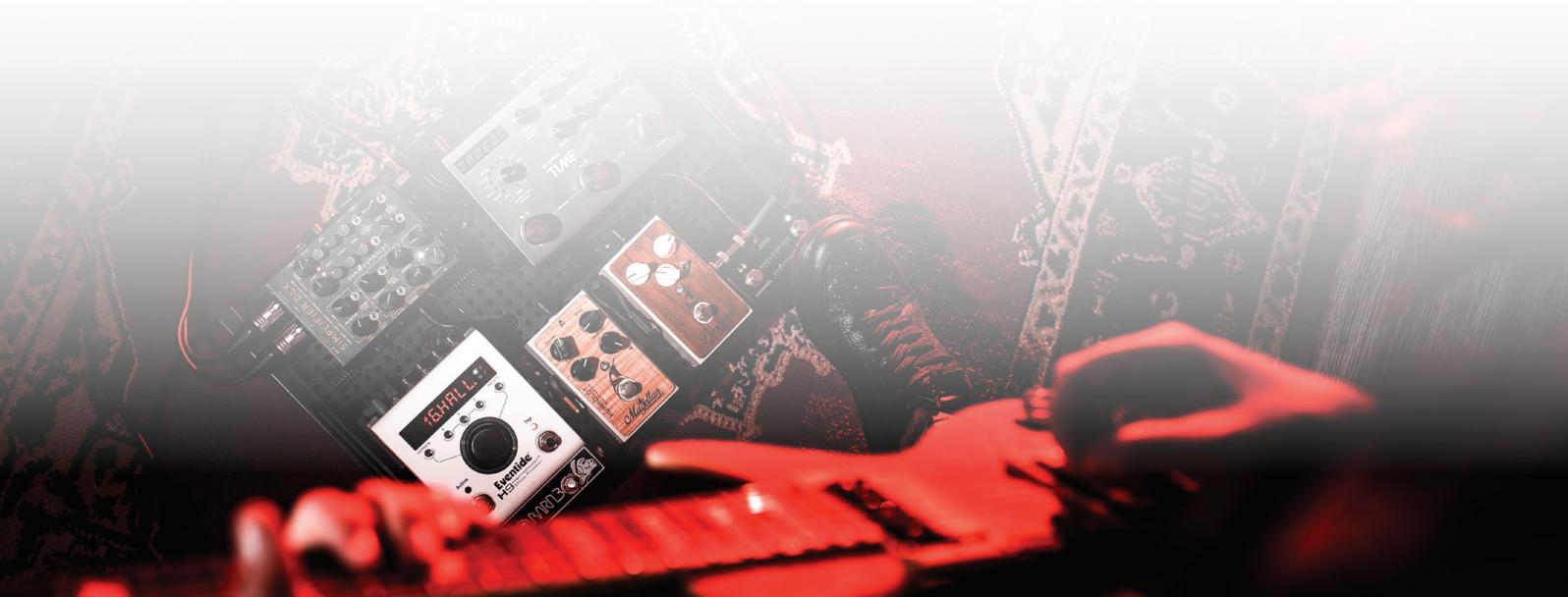
SPREAD SWITCH

SPREAD
OFF  ON

This unique feature allows you to create a pseudo stereo imaging, by shifting the phase of one channel on selected key frequencies. It will make your sound bigger and 3 dimensional, even if you are using a mono configuration.



 **SPREAD SWITCH**
PHONES LEVEL



FOOTSWITCH

The Simplifier DLX includes a footswitch input to control the channel selection and Reverb on/off status. This Footswitch is compatible with TRS channel controllers (as found in many pedal switchers). The Tip controls the Channel selection, and Ring controls the Reverb.

* For your convenience, we've included a TRS 3.5mm cable to operate footswitch (Only available on Bundle format).



FOOTSWITCH
INPUT
(3,5 TRS)

CHANNEL SELECTOR
SWITCH
*Disabled when D L X
Footswitch is
connected



SAMPLE SETTINGS



CLASSIC PLEXI



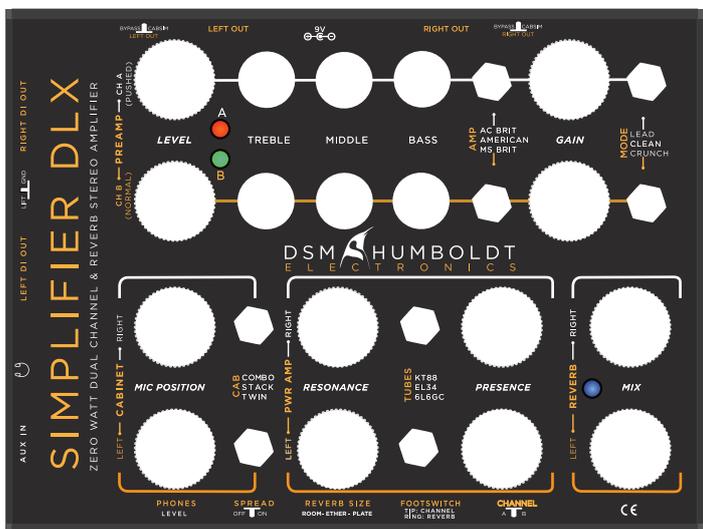
TWIN 65 / BASSMAN CRUNCH



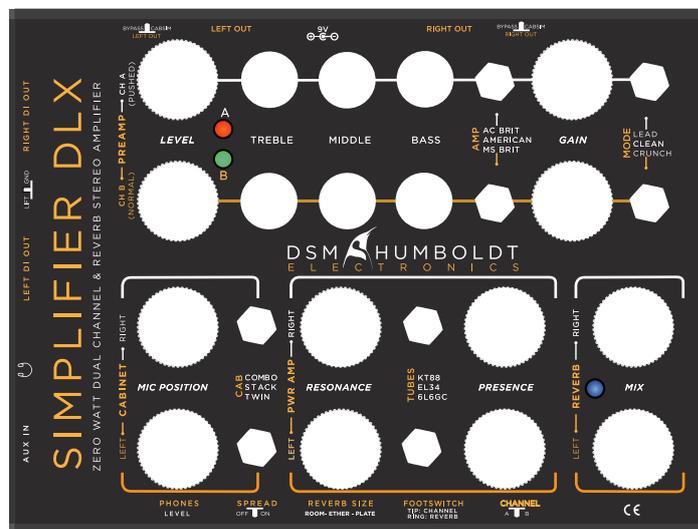
AC 30 / TOP BOOST



EVH



FAVORITE PRESET 1



FAVORITE PRESET 2

*PRINT THIS PAGE AND ADD YOUR FAV PRESETS

TECH SPECS

Weight: 435 grs (0,95 lb)

Dimensions: 130 x 95 x 60 mm (5,11 x 3,7 x 2,32 inches)

Power supply requirements:

Voltage: 9 to 12V DC regulated

Connector: 2.1mm DC jack, Center negative

Current consumption: 150mA

Recommended supply current: 200mA and up

Input Impedance:

Input: 1Meg Ohm

L & R return: 1Meg Ohm

Output impedance:

Send: 1K Ohm

Unbalanced Outputs: 4.7K Ohms

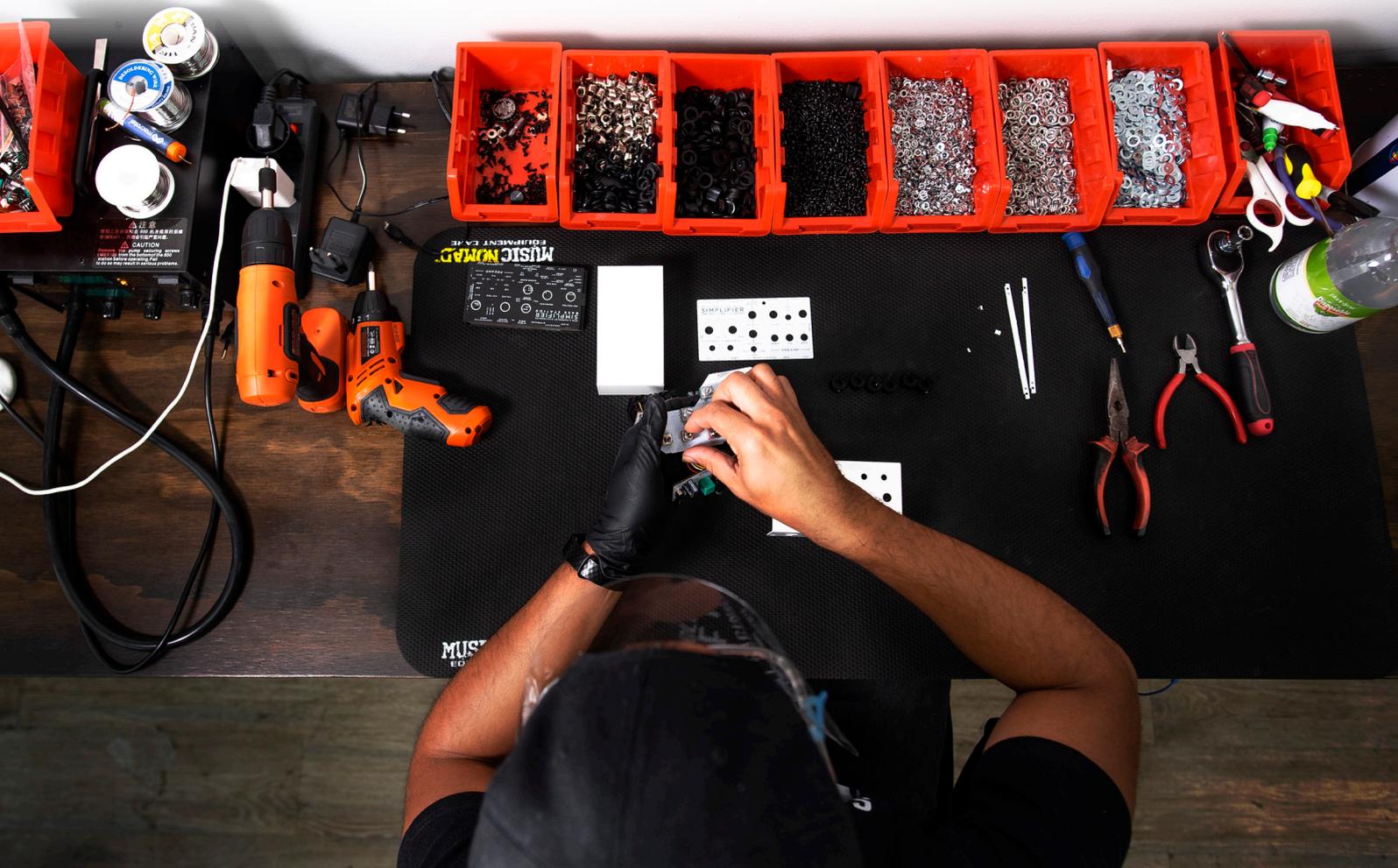
Balanced Outputs: 100 Ohms

Headphone amp specs:

Power: 135mW into 32 Ohms.

* Use with 16, 32, 64 and 96 Ohm Headphones.

* Loss of power can occur with higher impedance headphones.



EMI/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 support@simplifieramp.com



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A N A L O G W I L L S T A N D