NUX
Verdugo Series

Owner's Manual



NSS-5

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Accuracy
Whilst every effort has been made to ensure the accuracy and content of this manual, Cherub Technology Co., Ltd. Makes no representations or warranties regarding the contents.

WARNING!-IMPORTANT SAFETY INSTRUCTIONS
BEFORE CONNECTING, READ INSTRUCTIONS

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: To reduce the risk of fire or electric shock, do not remove screws. No user-serviceable parts inside. Refer servicing to qualified service personnel.

CAUTION: This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The lightning symbol within a triangle means "electrical caution!" It indicates the presence of information about operating voltage and potential risks of electrical shock.

The exclamation point within a triangle means "caution!" Please read the information next to all caution signs.

1. Use only the supplied power supply or power cord. If you are not sure of the type of power available, consult your dealer.
2. Do not place near heat sources, such as radiators, heat registers, or appliances which produce heat.
3. Guard against objects or liquids entering the enclosure.
4. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.
5. Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
6. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and at the point where they exit from the apparatus.
8. Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening".

Follow all instructions and heed all warnings
KEEP THESE INSTRUCTIONS!

Overview

NUX is proud to introduce the new Verdugo series NSS-5 Solid Studio IR & Power Amp simulator, a pedal version of the most classic amp / cabinet scenarios including microphone placement and the presence of internal power amp. Over many years of research, Solid Studio was specifically developed to fill the essential needs of discerning musicians and sound technicians, including the art of mic-ing instrument amplifiers on stage or in the studio. Solid Studio provides ease-of-use, reliability, versatility, and, above all, incredible audio quality.

NUX Solid Studio was created and designed to address: limited gear availability, and the cumbersome transport reality of physical amp / speaker cabinets.

NUX Solid Studio offers a “portable” alternative to traditional cabinet mic-ing and it has the perfect line-output everyone should have at the final stage of their pedal chain to send the sound directly to a PA or a recorder. Plus, power amp simulation with Master, Drive, and Presence controls, and 3 Power Tube selections, offers more variation for sound enhancement.

NUX Solid Studio comes with 8 cabinets, 8 microphones and 3 power amp tube simulations, all of which are the most commonly used models in the world. You can also upgrade and add other cabinets through Solid Studio Software. Virtual mic-ing is achieved by choosing 1 cabinet and 1 microphone, and fine-tuning the position of the microphone using the mic position switch.

Features

- 8 Speaker Cabinets.
- 8 Microphones and 3 Mic. Positions.
- 3 Power Amp Tubes.
- Master, Drive and Presence Controls (Power Amp).
- Thru Output Modes (Line / Speaker).
- Input Level Switch (-10dB / +4dB).
- USB Port for loading 3rd party IR files, software control and firmware update.

Loading 3rd Party IR Files

Plug the USB cable to the PC and you can see the pedal “Connected” on left top of the corner. Now you can control all parameters on the pedal, and save as a preset. Preset Banks can be selected by using the CAB knob on the pedal.

You can use NUX’s Solid Studio Software to load any of your favorite IR files and save presets as your own files. When you choose a 3rd party IR file, Microphone and Microphone Positions will be disabled. 3rd party IR files usually include their own microphone model and position adjustment.

Cabinet Model Names:	
JZ120	Roland Jazz Chorus 120
DR112	Fender Deluxe Reverb 112
BS410	Fender Bassman 410
A212	Vox AC30 212
TR212	Fender Twin Reverb 212
1960	Marshall 1960 412
GB412	Celestion Greenback 412
V412	Celestion Vintage 30 412

Microphone Model Names:	
DYN421	Sennheiser MD421
S57	Shure SM57
U87	Neumann U87
R122	Royer R122
R121	Royer R121
C414	AKG C414
C3000	AKG C3000
B52	Shure Beta52

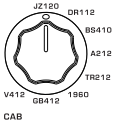
Note:

All the brand and model names mentioned on this manual are Trademarks of their respective owners, which are in no way associated or affiliated with NUX Effects and Cherub Technology CO. LTD.

Control Panel



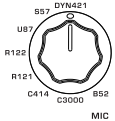
CAB knob



Changes the cabinet models. You can choose one of the 8 built-in cabinets. If you load a 3rd party IR file, you can switch presets by using the CAB knob.

Note: When you choose a preset with 3rd party IR file, microphones and Mic positions will be disabled.

MIC knob



Changes the microphone models.

You can choose one of the 8 microphones. Each microphone model has the unique sound of its own.

MASTER knob



Adjusts the Output Level when the power-amp simulation is activated. Controls the balance between input and simulation dedicated output. Original input/output signal level balance on at 12 o'clock. Turning anti-clockwise will decrease the output level and clockwise will increase the level.

DRIVE knob



Adjusts the amount of gain applied to Power Amp Simulation.

PRESENCE knob



Adjusts the treble frequencies. 12 o'clock is the flat position. Turning clockwise will increase the trebles.

Control Panel

Power Amp Tubes



Toggles between 3 different power amp tubes:

EL34: Heavier sound, crunchy.

6V6: A warm and natural tube sound.

EI84: Bright sound, tasty trebles.

MIC Positions



Toggles between 3 mic positions for fine-tuning.

Each microphone model can be adjusted with 3 positions.

CENT: The microphone is aimed directly at the CENTER of the speaker to emphasize the high frequency and get the strongest signal.

MID: The microphone is aimed at the point in-between the speaker center and the edge of speaker cone to mute some high frequency and emphasize bass frequency.

EDGE: The microphone is aimed at the edge of speaker cone to catch more bass frequencies.

Cabinet and Microphone Switch



Activates the cabinet and microphone simulation.

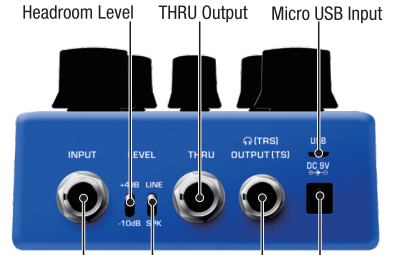
Power AMP Switch

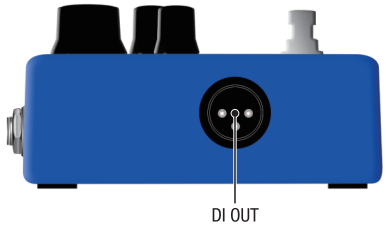


Activates the power amp simulation options.

-Power Amp Tubes
-Master
-Drive
-Presence

I/O Jacks





I/O Jacks

INPUT



6.35mm Mono jack input.

Headroom Level



If your input signal is higher, you can increase the headroom to avoid the signal clipping.

+4dB: When NUX Solid Studio is connected to your amplifier or mixer's SEND/ RETURN inputs, please set the toggle switch to +4dB position. The maximum input level of NUX Solid Studio will be adjusted to 18 dB.

-10dB: When NUX Solid Studio is connected to your Guitar or other effect pedals, please set the toggle switch to -10dB position. The maximum input level of NUX Solid Studio will be adjusted to 8 dB.

THRU Output



(1/4-inch Mono jack) to send the dry signal to amplifier or cabinet. Un-processed signal out.

Thru Output Line / Speaker Toggle Switch



LINE: When NUX Solid Studio is connected to external line level device, please set the toggle switch to LINE position. In this case, NUX Solid Studio will receive the signal directly from Input.

SPK: When NUX Solid Studio is connected to Power signal (i.e. Power Amplifier), please set the toggle switch to SPK position. In this case, the Input signal will be decreased by 20 dB.

WARNING

WHEN YOU ADD THE NUX SOLID STUDIO BETWEEN THE AMPLIFIER HEAD AND THE SPEAKER CABINET, YOU SHOULD MAKE SURE ALL THE CABLES MUST BE CONNECTED AND “SPEAKER” OUTPUT MODE MUST BE SELECTED TO AVOID THE POSSIBLE DAMAGE TO YOUR AMPLIFIER.

I/O Jacks

OUTPUT [TS]



(1/4-inch Mono jack) Cabinet and power amp simulation dedicated output. You can also connect headphones directly [TRS].

DI OUT



Balanced signal output, please use a XLR cable and connect to mixer or audio interface.

Micro USB Input



To connect to PC.

Power Input



DC 9V 2.1mm DC power, 9V ⊕-◖-⊖ .

Connection Methods

To audio interface

This is the basic use of Solid Studio at home or a studio. Just add the Solid Studio to the end of your signal chain to get cabinet, microphone and power amp simulated sound. You can use the [TS] Output or XLR DI out optionally.



Connection Methods

Amp Send/Return

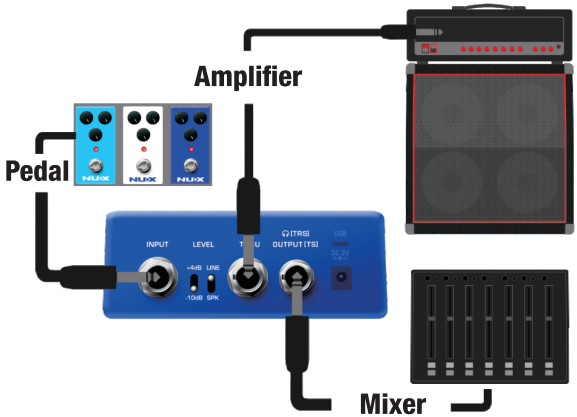
When you want to use your amp but the cabinet is too loud or not necessary, connect the Solid Studio via amplifiers Send/Return and choose one of the cabinets you would like to pair with your favorite amp. You can use the [TS] Output or XLR DI out optionally.



Connection Methods

Dry Signal to Amp / Simulated Signal to Mixer

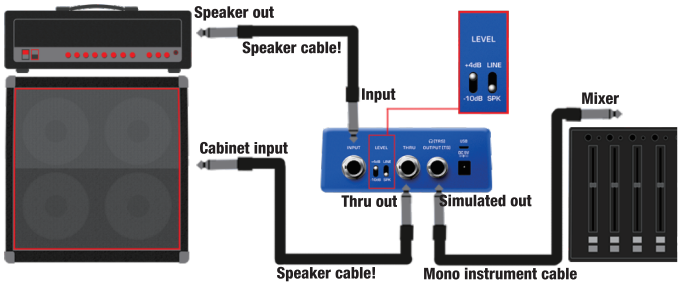
This is the regular way to carry your signal from pedalboard to mixer or audio interface with cabinet and power amp simulation. You can use “Thru” output to connect your pedalboard to amplifier directly. You can use the [TS] Output or XLR DI out optionally.



Connection Methods

Sending the Amp Signal to the Mixer / Audio Interface

This connection way is for sending your amplifier signals to mixer / audio interface. You can add Solid Studio in between the Power Amp and Cabinet*



***IMPORTANT**: When you add Solid Studio between the amp head and the cabinet, you should select the "SPKR" speaker and speaker cable MUST be connected to "THRU" output and to the cabinet. You can choose +4 dB to increase .

WARNING

The amplifier's speaker output must be connected to the Solid Studio's input by a SPEAKER CABLE.
The Solid Studio's THRU output must be connected to the speaker cabinet's input by a SPEAKER CABLE.
The Solid Studio's output mode must be selected as SPK (SPEAKER) .

BEFORE YOU PLAY:
MAKE SURE THAT ALL THE CABLES ARE CONNECTED AND SPEAKER MODE IS SET, TO AVOID THE POSSIBLE DAMAGE TO YOUR AMPLIFIER.

Specifications

-Sampling Frequency: 88.2 kHz
-A/D Resolution: 32 bit
-Resolution: 32 bit
-Frequency Response Range: 20Hz ~ 20kHz ±0.5dB
-Noise Level: -100 dBu (A-Weighted)
-Dynamic Range: 100dB
-Current Draw: <240mA
-Power Supply: 9V DC, Negative Tip
-Maximum Input Level: +18dB
-Maximum Output Level: -20dB
-Latency: 0.7ms
-Dimensions: 105mm(L) x 115mm(W) x 58mm(H)
-Weight: 428g

Accessories: User manual, NUX sticker.

*Specifications and features are subject to change without notice.

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