

**NUX**  
MINI CORE SERIES



[www.nuxaudio.com](http://www.nuxaudio.com)  
Made in China

NSS-4 Pulse  
**User manual**

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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 or local power company.
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. Refer all servicing to qualified service personnel. 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

Pulse (NSS-4) is a mini IR-Loader pedal with 3 different modes including EG CAB, BS CAB, and AG IR. You can switch the types by tapping the tap switch. Besides that, you can use Pulse as a silent practice tool (1/8" phone jack) in the end of your pedalboard and even as a USB recording interface onto DAW.

### EG CAB means electric guitar cabinet IRs

Pulse offers 8 guitar cab IRs: JZ120(Roland Jazz 120), DR112(Fender Deluxe Reverb), BS410(Fender Bassman 410), A212(VOX AC30 212), TR212(Fender Twin Reverb 212), 1960(Marshall 1960A 412), GB412(Celestion Greenback 412), V412(Celestion Vintage30 412).

### BS CAB means bass cabinet IRs

Pulse offers 8 bass cab IRs: AGL DB810(Aguilar DB 810), AMP SV810(Ampeg SV810), MKB 410(Mark Bass 410), TRC 410(Trace Elliot 410), AMP SV410(Ampeg SV410 + Tweeter), Bassguy 410(Fender Bassman 410), Eden 410(EDEN 410), AMP SV212(Ampeg SV212).

### AG IR means acoustic guitar IRs

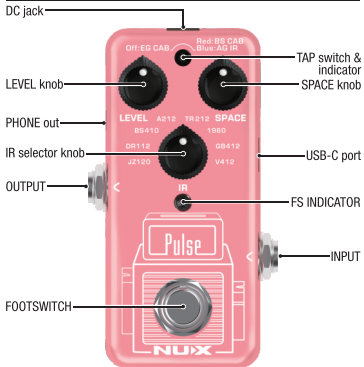
Pulse offers 8 acoustic guitar IRs: G HBird EG Mag(Gibson Hummingbird for Electric Guitar Magnetic PU), G J15 EG Mag(Gibson J15 for Electric Guitar Magnetic PU), M D45 EG Mag(Martin D45 for Electric Guitar Magnetic PU), G HBird Pie(Gibson Hummingbird for Acoustic Guitar Piezo under saddle PU), G J15 Pie(Gibson J15 for Acoustic Guitar Piezo under saddle PU), M D45 Pie(Martin D45 for Acoustic Guitar Piezo under saddle PU), M HD28 Pie(Martin HD28 for Acoustic Guitar Piezo under saddle PU), T 814 Pie(Taylor 814 for Acoustic Guitar Piezo under saddle PU).

Pulse IR-Loader offers True-bypass and Buffer-bypass (Trails), just hold the footswitch to boot-up the pedal (do not connect USB). The footswitch indicator will show you the bypass status. (While you boot-up the pedal, if the FS indicator flashes "Green"=BF, "Red"=TB.)

Mini but mighty! It also supports Stereo input & output. (Use 1/4" TRS plug, and choose Stereo mode.)

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

## Operation



### Control Panel

#### LEVEL knob

Adjusts the output volume.

#### SPACE knob

Adjusts the room size.

#### IR selector knob

Switch the IR slot.

#### TAP switch & indicator

Short press it, you can switch the IR type. "Off"=EG CAB, "Red"=BS CAB, "Blue"=AG IR.

Hold the TAP switch to boot-up the pedal can choose "Mono" or "Stereo". While you boot-up the pedal, if the Tap Switch Indicator flashes "Blue"=Mono, "Red"=Stereo.

### FOOTSWITCH & FS INDICATOR

Press once to engage/disengage the effect. While the effect is engaged, the FS indicator will show "Red". While the effect is disengaged, the FS indicator will turn off.

### I/O Jacks

#### DC jack

Use ONLY: 9V Negative Tip power with more than 100mA. (The power consumption is less than 100mA.)

#### USB-C port

The USB-C port is for firmware updates. Connect USB cable to a PC and hold the footswitch to boot-up the device and to enter the DFU (Device Firmware Update) mode. Once connected you can do firmware updates using DFU updater software.

You can download the related firmware and firmware update guide from product page.

USB audio interface.

Connect with Pulse edit software.

#### INPUT

Connect the cable from guitar side.

It also supports Stereo input & output. (Use 1/4" TRS plug, and choose Stereo mode.)

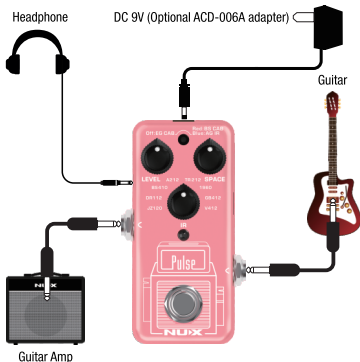
#### OUTPUT

Connect the OUTPUT signal to amp side.

It also supports Stereo input & output. (Use 1/4" TRS plug, and choose Stereo mode.)

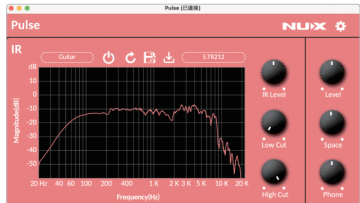
#### PHONE out

1/8" headphone output for silent practice and USB stream monitoring.

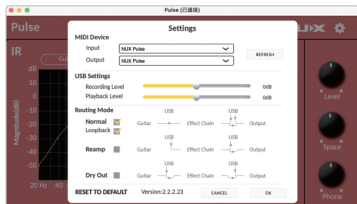


## Edit Software

You can download Pulse Edit Software on the product page. For the default slots, you can replace any 3rd party IRs into them. Pulse Editor will convert WAV format automatically.



You can setup the USB stream routing on Pulse editor.



*\*For MAC, there is no need for driver. For WIN, please visit the product page and click Support to download the related ASIO driver.*

For more operation tips and tutorials, you can search it on NUX EFX & Amplifier YouTube channel.

## Features

- 3 default IR types in the mini enclosure. (Total=24slots)
- EG CAB: JZ120, DR112, BS410, A212, TR212, 1960, GB412, V412.
- BS CAB: AGL DB810, AMP SV810, MKB 410, TRC 410, AMP SV410, Bassguy 410, Eden 410, AMP SV212.
- AG IR: G HBird EG Mag, G J15 EG Mag, M D45 EG Mag, G HBird Pie, G J15 Pie, M D45 Pie, M HD28 Pie, T 814 Pie.
- 1024 samples real time calculation.
- True Bypass or Buffer Bypass.
- Supports Stereo.
- Low power consumption. (less than 100mA)
- USB Audio Stream, Firmware Update.
- Pulse Editor for 3rd party IR loading, IR tweaking. (IR Level, Low Cut, High Cut)
- WAV format supports automatically. (through Pulse Editor)

## Specifications

- Input Impedance: 1M $\Omega$
- Output Impedance: 10k $\Omega$
- Earphone Output Impedance: 10 $\Omega$
- Dynamic Range: 103 dB
- DSP Processing: 48kHz / 32bit
- A/D D/A Sampling Rate: 48kHz / 24bit
- Power: 9V DC(Negative tip, Optional ACD-006A adapter)
- Current Draw: less than 150mA
- Dimensions: 94mm(L) x 51mm(W) x 53mm(H)
- Weight: 175g

## Accessories

- Owner's manual

\* Specification may change without notice.

### THE FCC REGULATION WARNING (for U.S.A.)

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 a residential installation. 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. However, 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 into 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.

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