NUX

STOMPBOX



User's Manual

CORE IMAGE

Core Deluxe MKII
Core deluxe series upgraded version

Digital Delay

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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

The NUX TIME CORE DELUXE MKII is a delay pedal with 7 different delay types and phrase looper including Φ Phi Digital Delay, Analog Delay, Modulation Delay, Tape Echo, Pan Delay, Verb Delay, Reverse Delay and Sound On Sound. You can switch the delay type by using the rotary switch.

Φ **Phi Digital Delay** is a digital delay with golden ratio 2nd repeat head. It makes your guitar sounds more musical. With no-brain tweaking, setup the desired sub-division, smart tap tempo, you're ready to go.

Analog Delay is based on the BBD (Bucket Brigade Device) delay. It produces very warm sound with natural treble decay. Very suitable for ballad solo's with romantic atmosphere. Our unique algorithm replicates the physical infinity oscillation feedback while you tweak the time knob from max to min quickly.

Modulation Delay is based on Ibanez DML modulation delay. The Chorus gets really lush and rich, not at all what you would expect from an ancient digital pedal. Hold the footswitch to enter to Alt mode (the LED indicator will flash ORANGE.), then the Repeat knob will become the Mod parameter. Short press the footswitch again to quit Alt mode.

Tape Echo is based on the legendary Space Echo machine. We digitally recreated the retro-feel of a real tape and capstan configuration. Tape Echo has high-frequency saturation and low-end decay of a magnetic tape. It's gently modulated for added richness and color. Tweak the time knob from max to min quickly, you can get the infinity feedback.

Pan Delay simply moves a mono signal to a different place in the stereo field. Our Pan Delay algorithm changed ordinary panning to “gourmet” panning that involves not only stereo placement but interesting imaging possibilities. It will allow pan moves to feel less extreme where you need placements to feel natural, and more extreme when you want to create ear-candy inside headphones.

Verb Delay features Plate Reverb algorithm with Digital Delay to create an ambient atmosphere. Hold the footswitch to enter to Alt mode to tweak the Verb parameter through Repeat knob, short press the footswitch to quit Alt mode.

Reverse Delay a truly historical effect: Record a guitar part on tape. Flip the tape over. Play it back. This is a timeless effect made popular by guitar legend Jimi Hendrix, , the Reverse Delay still inspires people to try out new things.

S.O.S Sound On Sound offers a 40 seconds stereo phrase looper for guitarists to practice and create new ideas. The good feature, while you are in playback, you can quit S.O.S to another delay mode and use the effect to play, in the meantime the playback keeps going. (Note: While you quit S.O.S to another delay mode, it will engage the delay effect.)

TIME CORE DELUXE MKII offers True-bypass and Buffer-bypass (Tail), adjust the 3-way toggle switch to the desired position, and you're good to go. (Note: Please follow the connections, the relay will offer you correct sound with correct applications.) The T.Lock (Tone Lock) function is a quick way to store and lock your current parameter setting to prevent accident on the stage. After you set the parameters, just toggle the switch to T.Lock position, then the LED indicator will flash GREEN for 2 times to store and lock the parameters. Then you can engage or disengage the effect by the footswitch and no worry your foot to touch the knobs.

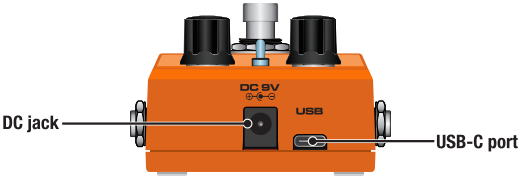
* All of the brand and model names mentioned on this page are Trademarks of their respective owners, which are in no way associated or affiliated with NUX Effects and Cherub Technology Co., Ltd.

Operation

Control Panel



I/O Jacks



TIME knob



Adjusts the delay time. While you set the knob parameter at the position as your desired sub-division, then you can smart tap the footswitch to get sub-division delay time related to tap tempo.

Time range related to the models	
Φ Phi Digital Delay:	80ms ~ 1000ms
Analog Delay:	40ms ~ 403ms
Modulation Delay:	20ms ~ 1500ms
Tape Echo:	55ms ~ 552ms
Pan Delay:	80ms ~ 1000ms
Verb Delay:	80ms ~ 1000ms
Reverse Delay:	320ms ~ 1240ms

Note: The maximum delay time is 1580ms by Smart Tap Tempo.

MIX knob



Adjusts the mix level of delay.

DELAY TYPE knob



Selects the type of delay.

Note: While you enter to S.O.S, it's ready to record the phrase loop by pressing the footswitch. After you record the loop and play the playback, you can quit to another delay type, the playback keeps playing. In the meantime, you can use the delay effect to play with the playback.

REPEAT knob



Adjusts the repeat numbers of delay. In Mod D. or Verb, hold the footswitch to enter to Alt mode, in the meantime, the LED indicator will flash ORANGE, and Repeat knob will become Mod or Verb parameter. Short press the footswitch to quit Alt mode.

Core Deluxe MKII

Toggle switch



Toggle the switch to desired position to choose the function. Tail means Buffer-Bypass to keep the delay with spillover while you disengage the effect. TB means True-Bypass, there is no spillover while you disengage the effect. T.Lock means Tone Lock. The T.Lock (Tone Lock) function is a quick way to store and lock your current parameter setting to prevent accident on the stage. After you set the parameters, just toggle the switch to T.Lock position, then the LED indicator will flash GREEN for 2 times to store and lock the parameters. Then you can engage or disengage the effect by the footswitch and no worry your foot to touch the knobs.

Footswitch & FS Indicator



Besides S.O.S type, in other delay types, press once to engage/disengage the effect. Press twice, it will become Smart Tap Tempo. In the meantime, the delay time is related to tap tempo and current sub-division parameter. (The FS indicator will flash as current BPM.)

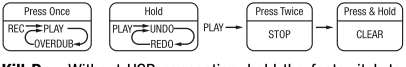


Note: The maxim delay time of tap tempo is 1580ms.

While the effect is engaged, the FS indicator will show “Red”. While the effect is disengaged, the FS indicator will turn off.

In Mod. D & Verb style, hold the footswitch can enter to Alt mode, in the meantime, the LED indicator will flash ORANGE, you can tweak Mod or Verb parameter through Repeat knob. Short press the footswitch to quit Alt mode.

In S.O.S style, the footswitch operation is like regular looper pedal. While REC, the LED indicator shows RED, while PLAY, the LED indicator shows GREEN, while OVERDUB, the LED indicator shows ORANGE.



Kill Dry: Without USB connection, hold the footswitch to boot-up the pedal, if the LED indicator flash GREEN 3 times, the KILL DRY is engaged. If the LED indicator flashes RED 3 times, the KILL DRY is disengaged. (Normal)

DC jack



9V Negative Tip power with more than 150mA. (The power consumption is less than 125mA.)

USB-C port



The USB-C port is for firmware update. 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.

IN jacks



The audio inputs on the right side of this pedal are standard 1/4" jacks (mono/TS). Connect your guitar to the In (mono) audio input on the right side of your pedal using a regular 1/4" instrument cable.

The pedal also accepts stereo signals using a pair of 1/4" TS cables.

For the Mono/Stereo connection applications, please check the Connections.

OUT jacks

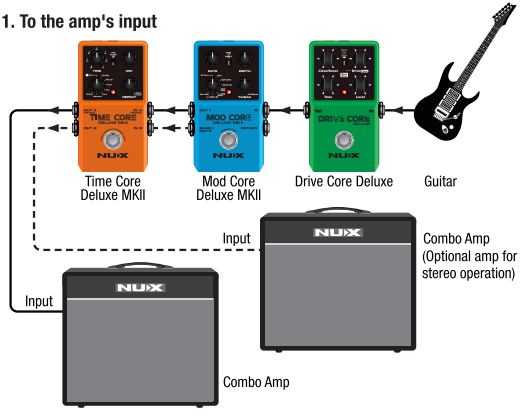


The audio outputs on the left side of this pedal are standard 1/4" jacks (mono/TS). Connect the audio output of your pedal to the next device in the signal chain, either with a single cable or with a pair of 1/4" cables if both inputs are used.

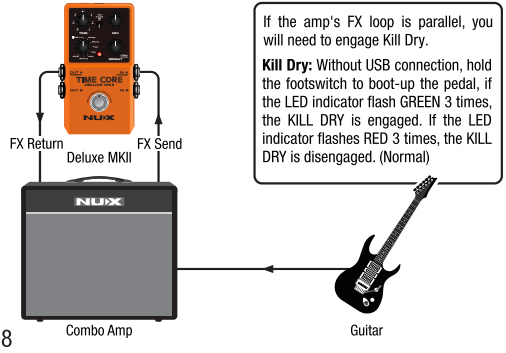
For the Mono/Stereo connection applications, please check the Connections.

Connections

1. To the amp's input



2. In the amp's FX loop



If the amp's FX loop is parallel, you will need to engage Kill Dry.

Kill Dry: Without USB connection, hold the footswitch to boot-up the pedal, if the LED indicator flash GREEN 3 times, the KILL DRY is engaged. If the LED indicator flashes RED 3 times, the KILL DRY is disengaged. (Normal)

Features

- 7 delay types in the compact enclosure.
- Φ Phi Digital Delay: Musical digital delay with golden ratio 2nd repeat head. (80ms ~ 1000ms)
- Analog Delay: Warm sound with natural treble decay. (40ms ~ 403ms)
- Modulation Delay: Lush and rich chorus with digital delay. (20ms ~ 1500ms)
- Tape Echo: High-frequency saturation and low-end decay. (55ms ~ 552ms)
- Pan Delay: Creative natural stereo feeling. (80ms ~ 1000ms)
- Verb Delay: Plate Reverb algorithm with Digital Delay to create the ambient atmosphere. (80ms ~ 1000ms)
- Reverse Delay: Inspire guitarists for new ideas. (320ms ~ 1240ms)
- S.O.S: 40 seconds stereo phrase loop.
- Sub-division with Smart Tap Tempo. (Maximum: 1580ms)
- True-bypass or Buffer-bypass(Tails).
- Supports Stereo.
- Kill Dry.
- Low power consumption. (less than 120mA)
- Analog dry signal for low noise and zero latency.

Specifications

- Input Impedance: 1MΩ
- Output Impedance: 10kΩ
- Dynamic Range: 104 dB
- DSP Processing: 48kHz / 32-bit
- A/D D/A Sampling Rate: 48kHz / 24-bit
- Power: 9V DC(Negative tip, Optional ACD-006A adapter)
- Current Draw: 120mA
- Dimensions: 122mm(L) x 72mm(W) x 47mm(H)
- Weight: 270g

* Specification may change without notice.

Accessories

- Owner's manual
- NUX sticker

Warning

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

FCC Warning

This device complies with part 15 of the 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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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. The device has been evaluated to meet general RF exposure statement. The device can be used in portable exposure condition without restriction.

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