

**NUX**  
MINI CORE SERIES



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

**NDD-3 EDGE DELAY**  
**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. 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

EDGE DELAY (NDD-3) is a mini delay pedal with 3 different delay types including  $\Phi$ Phi Digital Delay, Analog Delay, and Tape Echo. You can switch the types by tapping the tap switch.

$\Phi$ 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 with romantic atmosphere. Our unique algorithm replicates the physical infinity oscillation feedback while you tweak the time knob from max to min quickly.

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.

EDGE DELAY 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

#### MIX knob

Adjusts the mix level of delay.

#### REPEAT knob

Adjusts the repeat number of delay.

#### TIME knob

Adjust 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.

### TAP switch & indicator

Short press it, you can switch the delay type. "Off"=Off Digital, "Red"=Analog, "Blue"=Tape

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. 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.)

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 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.

#### 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.)



## Features

- 3 delay types in the mini enclosure.
- ΦPhi Digital Delay: Musical digital delay with golden ratio 2nd repeat head.
- Analog Delay: Warm sound with natural treble decay.
- Tape Echo: High-frequency saturation and low-end decay.
- Sub-division with Smart Tap Tempo. (Maximum: 1500ms)
- True-bypass or Buffer-bypass(Trails).
- Supports Stereo.
- Low power consumption. (less than 100mA)
- Analog dry signal for low noise and zero latency.

## Specifications

- Input Impedance: 1MΩ
- Output Impedance: 10kΩ
- Dynamic Range: 103dB
- 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 100mA
- Dimensions: 94mm(L) x 51mm(W) x 53mm(H)
- Weight: 175g

## Accessories

- Owner's manual
- Warranty card

\* 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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## 产品简介

EDGE DELAY (NDD-3) 是一款迷你延迟效果器。它内置了三种不同的延迟效果包括:  $\Phi$ Phi Digital Delay、Analog Delay以及Tape Echo, 您可以使用TAP按键切换所需延迟效果。

### $\Phi$ Phi Digital Delay

一款具有黄金比例的第二播放磁头的数字延迟, 能够让吉他音色更具音乐性。随意调节即可获得令人满意的音色。

### 模拟延迟(Analog Delay)

基于BBD延迟。延迟音色温暖、高频泛音自然, 非常适合具有浪漫氛围的民谣solo。

### 磁带回声延迟(Tape Echo)

基于传奇的Space Echo。我们利用数字的方式还原了原型机(真磁带加绞盘)的复古感觉。

## 操作说明



### 控制面板

#### MIX旋钮

调节延迟效果干湿比。

#### REPEAT旋钮

调节延迟效果的重复次数。

#### TIME旋钮

控制延迟效果的时长。

选定速度(时值)后, 使用“智能打点设速”可使效果速度与之同步。

\*本说明书中所提及的产品名称、注册商标和公司名称属于其各所有者, 与纽克斯效果器或深圳市蔚科电子科技有限公司无任何关联或附属关系。提及仅用于功能或特性说明, 而非侵犯其各所有者的各项权利。

## TAP按键及背光灯

### ●切换效果模式

短按此按键来切换效果模式。

TAP按键背光灯状态与效果模式对应关系如下：

TAP按键背光灯熄灭 = ΦPhi Digital Delay模式；

TAP按键亮红色背光= Analog Delay模式；

TAP按键亮蓝色背光= Tape Echo模式。

### ●切换输入/输出模式

NDD-3既支持单声道输入/输出又支持立体声输入/输出，您可以按住TAP按键再连接电源适配器来切换输入/输出模式。TAP按键背光灯状态与输入/输出模式对应关系如下：

TAP按键亮蓝色背光 = 单声道输入/输出模式；

TAP按键亮红色背光 = 立体声输入/输出模式。

## 效果器踩钉及踩钉指示灯

### ●开启/关闭效果

踩效果器踩钉一次来开启或关闭效果，效果处于开启状态时踩钉指示灯为红色；效果处于关闭状态时踩钉指示灯处于熄灭状态。

### ●切换直通模式

NDD-3既支持缓冲直通（Buffer Bypass）模式又支持真直通模式（Truebypass），您可以按住效果器踩钉再连接电源适配器来切换直通模式。踩钉指示灯与直通模式对应关系如下：

绿色 = 缓冲直通模式【带尾音保留（Trails）】；

红色 = 真直通模式。

### ●智能打点设速

效果处于开启状态时，以需要的速度连续踩效果

器踩钉两次以上来设定效果速度，完成设速后踩钉指示灯会以设定好的速度连续闪烁。

## I/O 接口

### DC 9V电源接口

请使用合格的、输出接口为内负外正的9V电源适配器为本产品供电。我们建议您选配NUX ACD-006A电源适配器，因为使用不兼容的电源适配器可能会引起噪音甚至功能故障。

### USB-C接口

USB-C数据交换接口，请使用合格的USB-C数据线将本产品连接至您的电脑进行固件更新。产品新固件、固件更新指南请移步至我司官网NDD-3产品页面查询及下载。

### INPUT接口

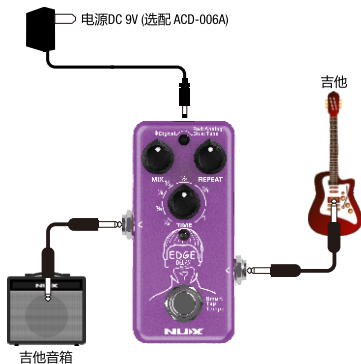
6.35mm信号输入接口，请将吉他连接至本接口。

### OUTPUT接口

6.35mm信号输出接口，请将吉他音箱连接至本接口。

**注意：**如果要使用立体声输入/输出，请务必将输入/输出模式设置为立体声并使用立体声导线（TRS patch cable）连接。





## 产品特点

- 集三种延迟效果于一体
- $\Phi$ Phi 数字延迟：极具音乐性的延迟效果
- 模拟延迟：音色温暖，高频泛音自然
- 磁带延迟：高频饱满，低频泛音
- 智能打点设速（Smart Tap Tempo）和细分时值（sub-division）
- 可切换缓冲器直通（Buffer Bypass）或真直通模式（True Bypass）
- 支持立体声输入/输出
- 低功耗（需求电流小于100mA）
- 低噪声零延迟模拟干声直通（Analog Dry Through）

## 技术规格

- 输入阻抗：1M $\Omega$
- 输出阻抗：10k $\Omega$
- 动态范围：103dB
- 数字音频信号处理：48kHz / 32bit
- AD转换/DA转换：48kHz / 24bit
- 电源：9V直流电源内负外正（选配NUX ACD-006A）
- 需求电流：小于100mA
- 体积：94mm（长）x 51mm（宽）x 53mm（高）
- 重量：175g

\*技术规格如有变更恕不另行通知。

## 随机附件

- 使用说明书
- 保修卡

## 有关产品中所含有害物质的说明

为了控制和减少电器电子产品废弃后对环境造成的污染,本资料就本公司产品中所含的特定有害物质及其安全性予以说明。

本资料适用于2016年7月1号以后本公司所制造的产品。

### 环保使用期限



此标志适用于在中国国内销售的电子信息产品,表示环保使用期限的年数。所谓环保使用期限是指在制造日起的规定期限内,产品中所含的有害物质不致引起环境污染,不会对人身、财产造成严重的不良影响。环保使用期限仅在遵照产品使用说明,正确使用产品的条件下才有效。不当的使用,将会导致有害物质泄漏的危险。

### 产品中有害物质的名称及含量

部件名称		有害物质					
		铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
主体	塑胶件	○	○	○	○	○	○
	五金件	×	○	○	○	○	○
	硅胶件	○	○	○	○	○	○
	内置电路板	×	○	○	○	○	○
附件	*交流电源适配器、线缆	×	○	○	○	○	○

\*表示某些产品可能不含有这些项目,上表当中的信息仅在产品含有这些项目时适用。

本表格依据SJ/T 11364的规定编制。

○:表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。

×:表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572规定的限量要求,因根据现有的技术水平,还有什么物质能够代替它。

### 保护环境

如果需要废弃本产品,请遵循本地相关指引,请勿随意丢弃或作为生活垃圾处理,以避免对环境造成污染。

## 质量承诺

亲爱的NUX用户:

在您使用NUX产品时,请仔细参阅产品说明书,当您有疑问和困难时,请拨打售后服务热线:400-990-9866

- 一周内出现质量问题可退货退款
- 一年内出现质量问题可免费维修
- 一月内出现质量问题可调换
- 终身享有咨询和维修服务

[ 请向销售商索取正规发票并予以保存 ]

## 换修政策

### 一、包换政策:

1. 消费者通过正规授权渠道购买的产品,自购机之日起1个月之内,在正常使用情况下出现非人为的产品性能故障、且产品外观及包装保持完好,可向所购机的经销商换机。

2. 消费者在换机时应出示由经销商开出的购机凭证,否则经销商可以不予更换。

### 二、保修政策:

1. 消费者通过正规授权渠道购买的产品(以发票所示销售方为准),自购买之日起1年内,若出现非人为损坏的性能故障,可享受免费维修服务。

2. 对于超过1年或人为及不可抗力因素造成损坏的产品,我可提供有偿维修服务。

\*本售后政策仅适用于中国大陆地区,其它国家及地区以当地售后政策及法律法规为准。

## 合格证 Certificate

检验员  
Inspector

名称  
Name 迷你延迟效果器

生产日期  
Date

型号  
Type NDD-3

本产品经检验合格 执行标准: Q/WKDZ 001-2020  
This product is inspected and approved. Product is certificated with Q/WKDZ 001-2020

制造商: 深圳市前科电子科技有限公司 制造商地址: 深圳市南山区蛇口兴华路6号南海康1号楼507 电话: 0755-2686 9866 网址: www.nuxef.com 生产商: 珠海市前科科技开发有限公司 生产商地址: 珠海市高新区唐家湾镇科技九路10号 电话: 0756-3689866