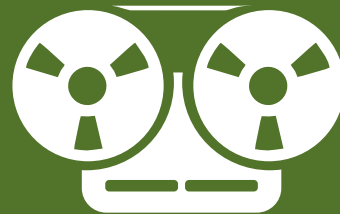


NUXX
Verdugo Series

Owner's Manual
使用手册



TAPE ECHO
磁带延迟效果模拟器

NDD-7

Copyright

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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.
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 TAPE ECHO is a tribute to the Japanese-made Space Echo in 1974. A tape echo device records incoming audio to a loop of magnetic tape, then replays the continuous loop over the playback head before it is erased again by new incoming audio. The Space Echo units, which used the standard 1/4" tape of the open-reel variety, but made as one, continuous loop. It uses no reels of any kind; the tape is transported via a capstan drive. The tape loop is contained in a loose, constantly moving jumble in the tape chamber (also known as the tape tank) under a plastic panel which protects the tape and keeps it from getting tangled. The design resulted in lower levels of noise, wow, and flutter, and cut down on tape wear. So NUX TAPE ECHO uses Core-Image technology to capture the characteristics including BASS, TREBLE, REPEAT RATE (TIME), INTENSITY (REPEAT), ECHO VOLUME (LEVEL), REVERB VOLUME (REVERB), and the physical features like WOW, FLUTTER, SATURATION, even self-regenerate, self-oscillate into a dual foot switch stomp-box enclosure.



NUX TAPE ECHO offers the essential knobs like BASS, TREBLE, TIME, REPEAT, LEVEL, REVERB and SELECT (repeat pattern) for quick tweaking, short press and hold the SELECT knob can enter to ALT TWEAKING for SATURATION, WOW, FLUT, KILLDRY, EXP, Foot Switch for self-FEEDBACK.

**Using Tap Tempo, the longest delay time can reach 1600ms.*

Control Panel



BASS knob



Controls the echo's low-end response.

TREBLE knob



Controls the echo's high-end response.

TIME knob



Controls the echo's rate.

REPEAT knob



Controls the echo's intensity (delay repeat numbers).

LEVEL knob



Controls the echo's volume (delay mix level).

REVERB knob



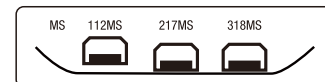
Controls the reverb's volume (based on Spring reverb).

Control Panel

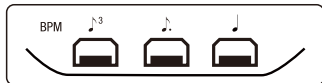
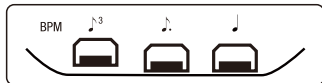
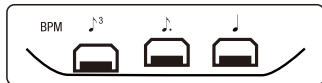
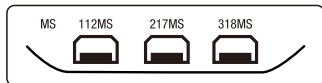
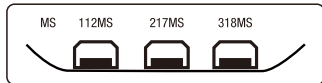
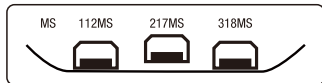
SELECT switch



Rotate the SELECT knob to select the Repro-Tape Heads combination.



Control Panel



Press and hold SELECT knob to enter to ALT TWAeking, in the meantime rotate SELECT to tweak current parameters, short press to the next function tweaking:

SATURATION: 0%~100%

WOW: 0%~100%

FLUT: 0%~100%

KILL FRY: OFF / ON

EXP: TIME / REPEAT / LEVEL

FB ENGAGE: OFF / ON (This can assign the ON footswitch for holding self-feedback.)

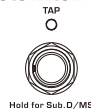
Control Panel

ON Footswitch and Indicator



Press the ON footswitch to engage/disengage the TAPE ECHO effect, while it's engaged, the indicator will turn on in RED color. In the meantime, hold the ON footswitch to trigger self-feedback.

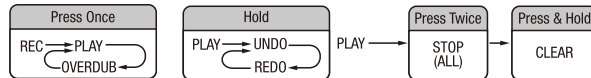
TAP Footswitch and Indicator



Tap the TAP footswitch can assign the time parameter related to 4th note. You can see the current BPM/MS on the display. Hold the TAP footswitch to choose subdivision display or MS display.

SOS mode

Press ON and TAP footswitches simultaneously to enter SOS mode(looper). In the meantime, ON footswitch can do REC / PLAY / DUB as phrase looper function. The display will show you current status. During loop playing, you can press ON and TAP footswitch to quit SOS mode, the loop will keep playing. You can change the parameters and reenter to SOS mode.



*TAPE ECHO offers 40 seconds real stereo phrase loop.

OLED display



Shows current Repro-Tape Heads combination with MS/Subdivision. While entering to ALT tweaking, it shows current parameter. While entering to SOS mode, it shows loop status.

I/O Jacks



INPUT (MONO)



Connect the cable from guitar side.

EXP



Use expression pedal to control related parameters, you can assign EXP for TIME, REPEAT, LEVEL.

OUT 1 (MONO)



Connect the cable to amp side for mono application.

OUT 2



Connect the cable to amp side for stereo application.

I/O Jacks

USB port



Connect USB cable to your PC with editor software, you can assign MIDI setting.

You can update firmware through the USB port. Please check our product page "Support" and follow instructions.

DC jack



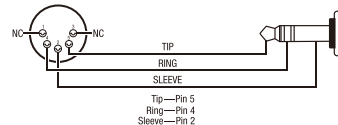
Use ONLY: 9V Negative Tip power with 300ma.

MIDI IN / OUT Jacks



Connect an external MIDI device here. (TAPE ECHO comes with the additional TRS/MIDI cables.)

Note: Do not connect an audio device here. Doing so will cause malfunctions.



Features

- Up to 1600ms stereo delay time by Tap Tempo
- 7 Repro-Tape Heads combinations and Reverb only
- Core-Image technology brings natural Tape Echo with parallel spring reverb sound back
- Realistic infinite pitch-shift feedback with TIME & REPEAT knobs tweaking
- Sub-division time signature with Tap Tempo foot switch
- 40 seconds stereo phrase loop with OLED status display
- Optional delay time display (MS / BPM)
- MIDI In / Out
- Holding ON footswitch for self-feedback

Specifications

- Sampling Rate: 48kHz
- A/D Converter: 32Bit
- Signal Processing: 32Bit
- Frequency Response: 20Hz~20kHz - ± 1 dB
- Input Impedance: 5M Ω
- Maximum input level: 1.5Vrms
- Output Impedance: 100 Ω
- Maximum output level: 1.5Vrms
- System Latency: 1ms
- Dynamic Range: 103dBu/105dBu(A-Weighting)
- THD+N Ratio: 0.0038% @ input 1Vrms_1kHz
0.01% @ input 1.5Vrms_1kHz
- Power: 9V DC(Negative tip, Optional ACD-006A adapter)
- Current Draw: approximately 100mA, <150mA
- Dimensions: 105mm(L)x115mm(W)x58(H)mm
- Weight: 440g

Accessories: User Manual, 3.5mm TRS to 5 pin MIDI adaptors, Warranty card

*Specifications and features are subject to change without notice.



www.nuxefx.com

Made in China

产品简介

NUX TAPE ECHO(NDD-7) 是一款向经典致敬的双踩钉磁带延时效果器，其原型机是一款磁带回声装置。这个装置能将传入的音频信号记录在一段磁带上然后通过回放磁头不间断播放已经录入的音频信号直至被新传入的音频信号覆盖，如此循环往复。原型机所使用的是标准的1/4英寸宽度开卷磁带，（与普通磁带）不同的地方在于它是单环形的且没有卷盘仅仅依靠绞盘驱动器驱动运转。这卷环形磁带被安置于磁带室，处于松散且持续运转的状态，依靠磁带室上方的一块塑料盖板提供基本保护以及避免缠绕打结。这一独特的设计造就了经典，我们利用自研的CORE-IMAGE技术来捕捉原型机上能够影响音色的各个细节以及各个细节相互作用时的奇妙变化，成功打造了这款重量级的产品。



请注意！重要安全说明。 在连接使用前，阅读以下说明。

警告: 为减少火灾或触电的危险，请勿将本产品置于雨中或潮湿的地方。

注意: 为避免火灾或触电等危险，请勿擅自拆卸本产品。维修本产品内部部件对于非专业人员来说较为困难，若有损坏请交给专业维修人员处理。

注意: 本产品已经过测试，证明符合FCC规则第15部分的B级数字设备的限制规定。操作应符合以下两个条件：（1）本产品不会产生有害干扰。（2）本产品必须接受任何干扰，包括可能会导致非正常操作的干扰。

1. 建议使用NUX ACD-006A电源适配器（需另购），如需搭配其它品牌电源，请务必按照产品标识的规格搭配电源适配器。如果您不确定可用的电源类型，请咨询您的经销商。
2. 请勿放置在热源附近，如散热器、电热器，或其它产生高热量的设备。
3. 请勿让液体、灰尘及其它物体进入本产品。
4. 请勿尝试自行维修本产品。如需维修，请联系我司售后热线或交给专业的维修人员。
5. 当本产品遭遇电源线或插头损坏、不明物体进入、进水等情况时，请谨慎使用并主动联系售后维修。
6. 如果长时间不使用本产品，应拔掉电源线。
7. 避免踩踏电源线，避免过度绷紧电源线。
8. 人耳长时间接收高音量声音可能会导致无法挽回的听力损害，请始终保持“安全聆听”。

请遵守所有的指示和注意所有警告并保留这些说明！

控制面板



BASS旋钮



设定低频信号强弱

TREBLE旋钮



设定高频信号强弱

控制面板

TIME旋钮



设定延迟时长

REPEAT旋钮



设定延迟出现的次数

LEVEL旋钮



设定延迟效果干湿比

REVERB旋钮

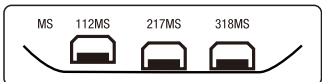
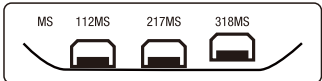
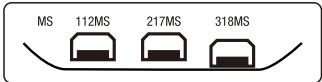
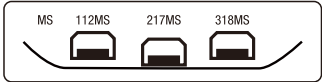


设定（弹簧）混响效果的音量

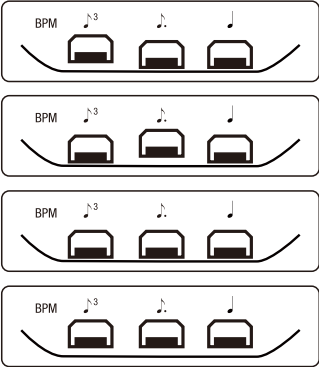
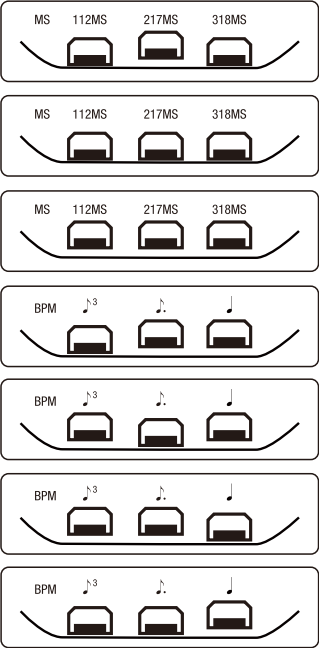
SELECT旋钮



功能一：转动此旋钮来选择一种磁头组合。



控制面板



功能二：长按此旋钮进入“可选调节项”设置菜单，向左或向右转动此旋钮改变“调节项”的参数或状态，再次点按此旋钮可切换“调节项”。“可选调节项目”包括：
SATURATION: 0-100%
WOW: 0% ~ 100%
FLUT: 0%~100%
KILL DRY: ON/OFF
EXP: TIME / REPEAT / LEVEL
FB ENGAGE: ON / OFF

控制面板

ON踩钉指示灯及ON踩钉



踩此踩钉来开启或者关闭TAPE ECHO，当它处于工作状态时，ON踩钉指示灯会保持红色常亮状态。此时长踩此踩钉可激活self-feedback功能。

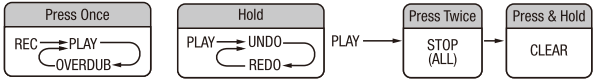
TAP踩钉指示灯及TAP踩钉



连续踩压此踩钉可设定延时速度，TAP踩钉指示灯将会依据设定的速度持续闪烁。您可以从屏幕上看到当前设定的延时时间。踩住TAP踩钉两秒钟以上可切换延时显示方式（MS / BPM）。

SOS模式

同时踩压ON踩钉和TAP踩钉，即可进入SOS（录音循环）模式。此时您可以使用ON踩钉来控制录音/播放/叠加录音等功能，屏幕上也会实时显示当前的状态。循环乐句播放时，您可以同时踩压ON踩钉和TAP踩钉退出SOS模式，循环乐句将持续播放。您可以调整参数后再次进入SOS模式。



*Tape Echo可提供最长40秒的录音时间。

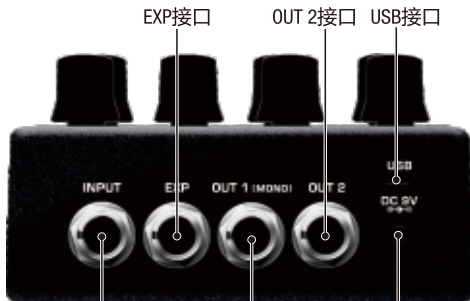
OLED屏幕



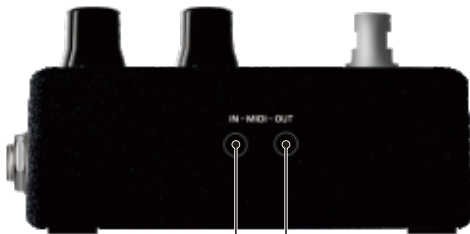
显示当前磁头的组合模式以及延迟时间（MS或BPM）。当您设置可选调节项时（ALT Tweaking），屏幕会显示当前所选项目的参数或者状态。

当Tape Echo处于SOS（录音循环）模式时，屏幕会显示录音循环的工作状态（录音/播放/叠加录音/停止/清除等信息）。

I/O接口



INPUT (MONO)接口 OUT 1 (MONO)接口 DC接口



MIDI IN / OUT接口

INPUT输入接口



6.35mm单声道信号输入接口，连接您的吉他、其它乐器或其它效果器。

EXP接口



6.35mm表情踏板输入接口，设定后可控制延迟时间、延迟反馈、(延迟)干湿比。

OUT 1 (MONO)接口



仅使用该接口时，TAPE ECHO输出单声道音频信号。

OUT 2接口



同时使用OUT 1 与OUT 2接口时，输出立体声音频信号。

I/O接口

USB接口



Type-C接口，可连接电脑进行固件升级或使用配套软件编辑音色以及进行MIDI设置。固件、固件升级指南以及编辑软件请移步至我司官网TAPE ECHO (NDD-7) 产品页面“支持”栏目下载。

DC接口



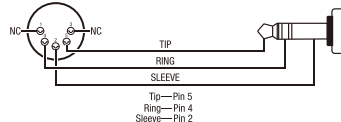
电源接口，连接9V(内负外正)交流适配器，推荐选配NUX ACD-006A。

MIDI IN/OUT组合接口



3.5mm TRS mini MIDI接口，使用附赠的3.5mm TRS转5-pin线连接外部MIDI设备。

警告：非辅助音频输入接口和辅助音频输出接口。切勿将外部音频播放设备与MIDI IN/OUT组合接口中任意一个连接，否则您的TAPE ECHO将会被损坏。



产品特点

- 使用Tap Tempo(打点设速)时，延迟时间最长可设定为1600毫秒
- 7种延迟组合搭配混响效果
- Core-Image技术完美呈现自然的磁带延迟音色和弹簧混响音色
- 通过调节TIME旋钮和REPEAT旋钮可真实再现无限回授加磁带镶边变调音色
- 细分时值加Tap Tempo踩钉
- 40秒录音循环功能
- 可选延迟时间显示方式（ms / BPM）
- MIDI输入/输出
- 踩住ON踩钉时可实现Self-feedback功能

技术规格

- 采样率：48kHz
- 数模转换精度：32Bit
- 信号处理精度：32Bit
- 频率响应范围：20Hz ~ 20kHz(± 1 dB)
- 最大输入电平：10dBu / 2.8Vrms
- 输入阻抗：5M Ω
- 系统延迟：1ms
- 最大输出电平：10dBu / 2.8Vrms
- 输出阻抗：1k Ω
- 动态范围：102dBu
- 总谐波失真加噪声：0.02%/-70dB(A-Weighting)@input 1Vrms, 1kHz
- 电源：9V 交流适配器（内负外正，选配NUX ACD-006A）
- 电流消耗：小于150mA
- 尺寸：105mm(L) x 115mm(W) x 58mm(H)
- 重量：440g

*技术规格如有变更，恕不另行通知。

随机附件：使用说明书、3.5mm TRS转5-pin MIDI线、保修卡。

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， 我司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 **磁带延迟效果模拟器**

型 号
Type **NDD-7**

生产日期
Date

本 产 品 经 检 验 合 格
This product is inspected and approved.
执行标准: Q/WKDZ 001-2020
Product is certificated with Q/WKDZ 001-2020

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，不会对人体、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，还没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。							

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