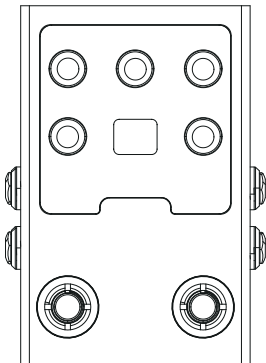


CORVEN

USER MANUAL

Stereo Delay Pedal



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Product Overview

- **Product Positioning:** A professional dual-footswitch guitar/bass delay pedal, designed to meet the core needs of professional musicians and recording engineers. It comprehensively covers all application scenarios, including live performances, studio recording, and daily practice, making it an essential tool for achieving precise delay tones and creative spatial effects.
- **Core Effects Configuration:** Features 9 meticulously curated delay effects, encompassing practical types such as classic analog and digital echo. It satisfies the delay tone requirements for different musical styles and performance situations, with simple adjustments and strong tonal versatility.
- **Hardware Core Configuration:** Equipped with standard stereo full interfaces, it accurately reproduces the details of the stereo soundfield, catering to both recording and stereo performance needs. It prevents tone loss and ensures a pure signal output.
- **Special Features:** Supports PING-PONG function, creating a left-right cycling, immersive stereo delay effect. Incorporates Trails function, allowing delay tails to decay naturally when the effect is switched off, eliminating abrupt cut-offs. Features a wet delay freeze function to meet the needs of improvisation and special performance effects. Includes a footswitch Tap Tempo function for real-time delay time synchronization, offering convenient and flexible operation. Suitable for diverse performance styles like guitar solos and ambient music, enhancing tonal layers and spatial sense. Even beginners can get started quickly.

Precautions

- **Power:** Please use a 9V DC, center-negative adapter capable of $\geq 300\text{mA}$ OR a USB-C 5V power source capable of $\geq 300\text{mA}$. Mixing with other specifications is prohibited, as it may damage the device. Unplug the power when not in use or during thunderstorms.
- **Connection:** Turn off the power before connecting or disconnecting cables. Disconnect all cables before moving the unit.

- **Placement:** Avoid direct sunlight, high temperatures, humidity, dusty conditions, magnetic fields, and severe vibration.
- **Interference:** Keep away from devices such as radios and televisions during use to prevent signal interference.
- **Cleaning:** Wipe with a dry, soft cloth. Do not use chemical solvents such as alcohol or thinners.
- **Operation:** Do not forcefully operate the controls. Prevent foreign objects from falling into the unit, and avoid dropping or applying heavy pressure.

Panel and Interface Descriptions

- 1.TIME Knob:** Adjusts the delay time.
- 2.HAAS Knob:** Adjusts the spatial width and positioning of the stereo image.
- 3.PARA Knob:** Maps to different control parameters depending on the currently chosen delay effect.
- 4.REPEAT Knob:** Adjusts the number of delay echo repeats.
- 5.MIX Knob:** Adjusts the blend ratio between the dry (original) and wet (effected) signals.
- 6.Digit Display:** Shows the abbreviated name of the currently selected effect in real time. The dot in the lower-right corner lights up when the effect is active. The center dot at the bottom of the display lights up when the tails function is active and turns off when the function is inactive. The dot in the lower-right corner blinks when the PING-PONG function is active.
- 7.OUT1:** Stereo Left Channel Output. Connects to the amp or next device in the signal chain to output the processed audio signal.
- 8.OUT2:** Stereo Right Channel Output. Connects to the amp or next device in the signal chain to output the processed audio signal.
- 9.IN1:** Mono / Stereo Left Channel Input. Connects the source instrument's original audio signal.
- 10.IN2:** Stereo Right Channel Input. Used with IN1 to accept a stereo input signal.

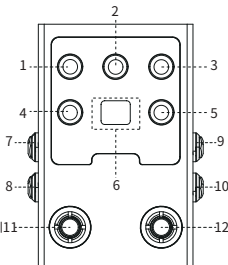
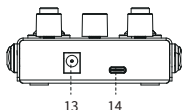
11.FS-L Footswitch: A short press toggles the delay effect on/off. A long press cycles through the 9 delay effects. The RGB LED is constantly lit when the effect is on, and off when the effect is off. A simultaneous short press with the FS-R footswitch toggles the PING-PONG function on/off. A simultaneous long press with the FS-R footswitch toggles the Trails (delay tail retention) function on/off.

12.FS-R Footswitch: A short press (or series of presses) sets the TAP tempo for delay time; the RGB LED blinks at the set rate. The LED does not blink when the delay time is adjusted using the TIME knob. (The TAP and TIME knob operate on a "last control takes priority" logic; the last-used method has the highest priority.) A long press activates the delay tail freeze; release to cancel. When the tail

freeze is active, the RGB lights of both the FS-L and FS-R footswitches change color and remain steadily lit. After canceling the freeze, the indicator lights return to their previous state. A simultaneous short press with the FS-L footswitch toggles the PING-PONG function on/off. A simultaneous long press with the FS-L footswitch toggles the Trails function on/off.

13.DC 9V Jack: Power input jack. Use a regulated 9V DC, center-negative power supply rated at 300mA or higher to power the unit.

14.USB-C Port: For connecting to a computer. It enables preset import, firmware updates, and audio recording/transfer. Supports 5V, $\geq 300\text{mA}$ power input. When used for audio transmission, the level of the wet (effected) signal is automatically attenuated to prevent potential input overload damage on connected external devices.

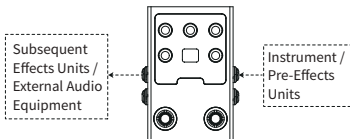


Bypass Mode Description

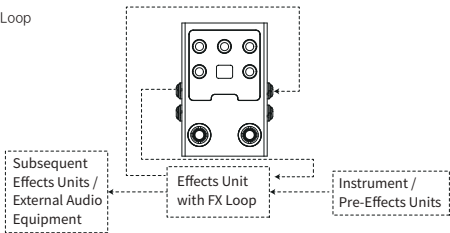
- When the delay effect is inactive and the Trails function is disabled, the unit automatically enters Soft Bypass Mode. The input signal bypasses the delay effect circuitry entirely, passing directly to the output jacks. In this mode, the input signal is passed completely to the corresponding outputs, ensuring minimal signal loss and coloration for the subsequent signal chain (e.g., other effects pedals, mixing consoles, etc.).
- When the delay effect is inactive but the Trails function is enabled, the unit automatically switches to DSP Bypass Mode. The input signal is routed through the DSP to allow the delay tails to continue decaying naturally, while also passing directly to the output jacks. In this mode, the input signal is also passed completely to the corresponding outputs.

Connection Methods

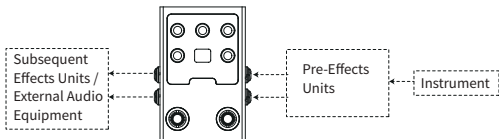
- **Mono Output**
1. Effect Chaining



2.Effect Loop

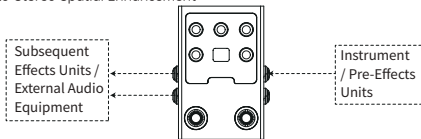


2.IN1 → OUT1, IN2 → OUT2 – True Stereo Independent Channels



•Stereo Output

1.Mono-to-Stereo Spatial Enhancement



Effect Descriptions

Effect Name Display	Effect Description	PARA Knob Control Parameter
d1.	Digital Delay: Delivers crisp, precise tones with a high-fidelity, uncolored digital delay effect.	Tone: Adjusts the brightness and clarity of the delay sound.
7A.	Tape Delay: Emulates the wow and flutter and saturation characteristics of analog tape machines, delivering a vintage, warm tape-quality delay.	Wow: Adjusts the intensity of the wow effect.
bd.	Analog BBD Delay: Delivers warm, mellow tones that authentically recreate the vintage character of classic analog delays.	Age: Adjusts the intensity of analog aging.
dU.	Ducking Delay: Automatically lowers the delay volume while you play and brings it back up when you stop, ensuring a clear mix without muddiness.	Smooth: Adjusts the diffusion and smoothness of the echoes.
Sr.	Smear Delay: Creates soft, diffused echoes, crafting a hazy and warm atmosphere with a scattered, multi-reflection effect.	Filter: Adjusts the filter frequency of the reverse echoes.
cE.	Reverse Delay: Plays echoes in reverse to generate ethereal, psychedelic soundscapes with a unique spatial effect.	Bit Depth: Adjusts the bit depth.
IC.	Ice Delay: Features cold, crystalline tones with layered octave harmonics, creating a dreamy and ethereal sonic space.	Mood Depth: Adjusts the modulation depth.
LO.	Lo-Fi Delay: Infused with lo-fi distortion and noise-reduction artifacts, offering a retro and niche lo-fi atmosphere.	Age: Analog aging intensity.
Od.	Modulation Delay: Features built-in vibrato modulation for a rich tone full of dynamic, undulating movement.	Tone: Delay tone brightness.

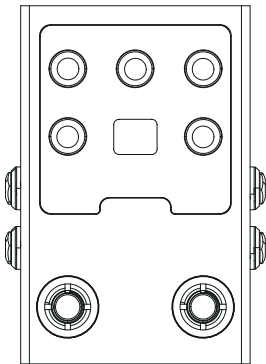
Technical Specifications

Delay Effect	9
Input	2 x 1/4" Mono audio jacks, Input Impedance: 1 M Ω
Output	2 x 1/4" Mono audio jacks, Output Impedance: 100 Ω
Operating Voltage	9V DC (center negative) / USB 5V
Operating Current	300 mA
Weight	Approx. 362 g
Dimensions	132.5 mm (L) x 98.5 mm (W) x 43.5 mm (H)
Accessories	USB-C Cable, User Manual

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使用说明

立体声延迟单块效果器



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产品概述

产品定位：专业级双踩钉吉他 / 贝斯延迟单块，聚焦专业乐手、录音师核心使用需求，全面覆盖现场演出、棚内录音、日常练琴全应用场景，是实现精准延时音色与创意空间音效的核心利器。

核心效果配置：内置 9 款精选延迟效果，涵盖经典模拟、数字回声等实用类型，满足不同风格曲目、不同演奏场景的延迟音色需求，调试简单、音色适配性强。

硬件核心配置：搭载标准立体声全接口，完整还原立体声声场细节，兼顾录音与立体声演出需求，杜绝音色损耗，保障纯净信号输出。

特色功能：支持 PINGPONG 乒乓功能，营造左右循环的立体环绕延时效果；搭载延迟尾音保留 (Trails) 功能，关闭效果时尾音自然衰减，无断音突兀感；支持延迟湿声冻结功能，满足即兴创作与特殊演奏音效需求；配备踩钉 Tap Tempo 功能，实时同步延时时间，操作便捷灵活；适配吉他独奏、氛围音乐等多元演奏形式，强化音色层次感与空间感，新手亦可快速上手。

注意事项

电源：请使用 9V DC 内负外正 $\geq 300\text{mA}$ / USB-C 5V $\geq 300\text{mA}$ 专用电源，禁止混用其他规格，否则易损坏设备；不使用或雷雨天请拔掉电源。

连接：连接 / 拔线前请先关闭电源，移动前请断开所有线材。

放置：避免阳光直射、高温、潮湿、多尘、磁场及剧烈震动环境。

干扰：使用时远离收音机、电视机等设备，避免信号干扰。

清洁：用干燥软布擦拭，勿使用酒精、稀释剂等化学溶剂。

操作：请勿暴力操作控件，防止异物掉入机内，避免摔落与重压。

面板与接口说明

1.TIME旋钮：调节延迟时间。

2.HAAS 旋钮：调节立体声像的空间宽度与定位感。

3.PARA 旋钮：随当前所选延迟效果映射不同控制参数。

4.REPEAT旋钮：调节延迟回声重复次数。

5.MIX 旋钮：调节干声与效果声的混合比例。

6.数码管显示屏：实时显示当前所选效果的名称缩写。效果开启后，右下角点亮；尾音保留功能开启时，数码管中间下方的点会点亮，功能关闭时该点熄灭。PINGPONG 功能开启后，右下角的点持续闪烁。

7.OUT1：立体声左声道输出接口，输出处理后的音频信号至音箱或后级设备。

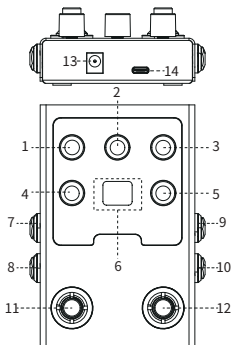
8.OUT2：立体声右声道输出接口，输出处理后的音频信号至音箱或后级设备。

9.IN1：单声道 / 立体声左声道输入接口，接入乐器原始音频信号。

10.IN2：立体声右声道输入接口，与 IN1 配合实现立体声信号输入。

11.FS-L 踩钉：短按切换延迟效果开启 / 关闭；长按循环切换 9 种延迟效果。RGB 指示灯常亮为效果开启，熄灭为效果关闭；与 FS-R 踩钉同时短按，可开启 / 关闭 PINGPONG 功能，同时长按可开启 / 关闭延迟尾音保留功能。

12.FS-R 踩钉：连续短按设置 TAP time 打点延迟时间，RGB 指示灯随设定速率闪烁；通过 TIME 旋钮调节延迟时间时，RGB 指示灯不闪烁（TAP 与 TIME 旋钮采用最后操作优先逻辑，最后使用的控制方式拥有最高优先级）。长按开启延迟尾音冻结，松开即取消。尾音冻结激活时，FS-L、FS-R 踩钉 RGB 灯均转色常亮；取消冻结后，指示灯恢复原有状态；与 FS-L 踩钉同时短按，可开启 / 关闭 PINGPONG 功能，同时长按可开启 / 关闭延迟尾音保留功能。



13.DC 9V接口：供电接口，需接入 9V DC 内负外正，300mA 以上稳压电源驱动设备。

14.USB-C接口：用于电脑连接，可实现预设导入、固件升级与音频录制传输，支持 5V $\geq 300\text{mA}$ 供电；当用于音频传输时，效果湿声将自动降低音量，避免外接设备因输入过载损坏。

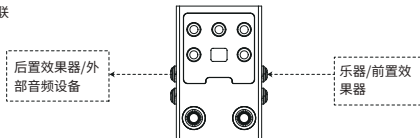
旁通模式说明

- 延迟效果处于关闭状态且延迟尾音保留功能未开启时，设备将自动进入模拟旁通模式（Soft Bypass），输入信号不经过延迟效果模块的处理，直接直通至输出接口。该模式生效时，输入信号会完整传递至对应的输出接口，确保信号低损耗、低染色地直通至后级设备（如立体声效果器、调音台等）。
- 当延迟效果处于关闭状态且延迟尾音保留功能开启时，设备将自动切换为 DSP 旁通模式（DSP Bypass），输入信号经过 DSP 处理以维持延迟尾音持续输出并直通至输出接口，该模式生效时，输入信号会完整传递至对应的输出接口。

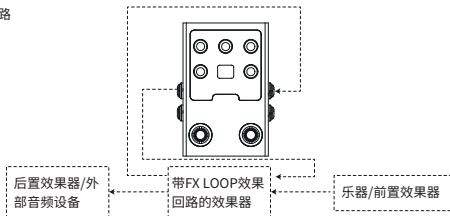
连接方式

• 单声道输出

1. 效果串联

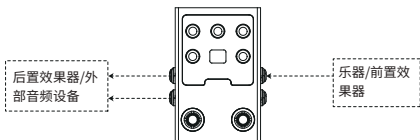


2.效果回路

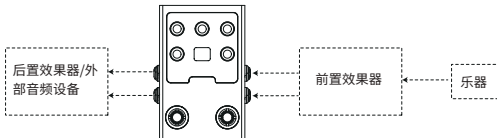


- 立体声输出

1.单声道输入转立体声输出的空间扩展



2.IN1→OUT1、IN2→OUT2,真立体声独立通道



效果描述

效果名称显示	效果描述	PARA旋钮控制参数
d1.	数字延迟 (Digital) : 音色清晰精准, 高保真无染色的数字延迟效果。	Tone: 调节延迟音色明暗通透度。
7A.	磁带延迟 (Tape) : 模拟磁带机抖晃与饱和特性, 复古温暖的磁带质感延迟。	Wow: 调节磁带抖晃程度。
bd.	模拟 BBD 延迟 (BBD) : 音色温暖温润, 还原复古模拟延迟质感。	Age: 调节模拟老化程度。
du.	闪避延迟 (Duck) : 弹奏时自动压低延迟音量, 释音后延迟凸显, 演奏清晰不浑浊。	Tone: 调节延迟音色明暗
Sr.	涂抹延迟 (Smear) : 回声柔和弥散, 营造朦胧温润的漫反射延迟效果。	Smooth: 调节回声的弥散平滑度。
cE.	反向延迟 (Reverse) : 回声反向播放, 营造空灵迷幻的特殊空间音效。	Filter: 调节反向回声的滤波频率。
IC.	冰晶延迟 (Ice) : 音色冰冷清透, 叠加八度泛音, 营造空灵梦幻的空间音效。	Pitch: 调节音高偏移与泛音比例。
LO.	低保真延迟 (Lofi) : 带有低保真失真与降噪质感, 复古小众的低保真氛围。	Bit Depth: 调节比特深度。
Od.	调制延迟 (Mod) : 内置颤音调制, 音色饱满富有波动变化。	Mood Depth: 调节调制深度。

效果技术参数

延迟效果	9个
输入	2个 1/4" 单声道音频接口,输入阻抗(阻抗1Mohm)
输出	2个 1/4" 单声道音频接口,输出阻抗(阻抗100ohm)
工作电压	9V DC 内负外正 / USB 5V
工作电流	300mA
重量	约362克
尺寸	132.5毫米(长)* 98.5毫米(宽)* 43.5毫米(高)