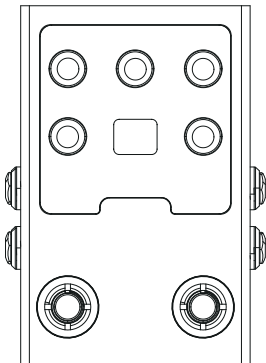


ZENITH

USER MANUAL

Stereo Modulation Pedal



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Product Overview

- **Product Positioning:** A professional dual-footswitch stereo modulation pedal for guitar and bass, designed to meet the core needs of professional musicians and recording engineers. It fully supports live performances, studio recording, and daily practice, making it an essential tool for creating rich dynamic tones and immersive spatial textures.
- **Core Effects Setup:** Equipped with 9 classic modulation effects, covering the full range of time-based and modulation styles—including chorus, phaser, tremolo, Uni-Vibe, and auto-wah. The algorithms are precise and highly authentic, delivering tones that suit a wide variety of musical genres and playing situations.
- **Hardware Core Configuration:** Features standard stereo I/O that fully reproduces the nuances of a stereo field, ensuring low signal loss and clear, transparent output. Optimized for both studio recording and stereo live setups.
- **Special Functions:** Includes a dedicated footswitch for Tap Tempo, allowing real-time synchronization of effect rate for intuitive and quick control. The dual-footswitch layout handles effect on/off and tempo adjustment, making it versatile for solo, band, and ambient playing styles. The pedal offers excellent tonal layering and spatial definition, and is easy to use even for beginners.

Precautions

- **Power Supply:** Use only a dedicated 9V DC (center-negative) power supply rated $\geq 300\text{mA}$, or a USB-C 5V supply rated $\geq 300\text{mA}$. Do not use other specifications, as this may damage the unit. Unplug the power when not in use or during thunderstorms.
- **Connections:** Always turn off the power before connecting or disconnecting cables. Disconnect all cables before moving the unit.
- **Placement:** Avoid direct sunlight, high temperature, humidity, dust, strong magnetic fields, and excessive vibration.

- **Interference:** Keep away from radios, televisions, and other devices that may cause signal interference.
- **Cleaning:** Wipe with a dry, soft cloth. Do not use alcohol, thinners, or other chemical cleaners.
- **Operation:** Handle all controls gently. Prevent foreign objects from entering the unit. Avoid dropping or applying heavy pressure.

Panel and Interface Descriptions

1.RATE Knob: Adjusts the modulation rate.

2.PARA1 Knob: Maps to different control parameters according to the currently selected modulation effect.

3.PARA2 Knob: Maps to different control parameters according to the currently selected modulation effect.

4.DEPTH Knob: Adjusts the modulation depth.

5.MIX Knob: Adjusts the blend between the dry (original) signal and the wet (effected) signal.

6.Digital Tube Display: Shows the abbreviation of the currently selected effect in real time. The lower-right dot lights up when the effect is enabled.

7.OUT1: Stereo left-channel output. Connects to an amplifier or downstream device.

8.OUT2: Stereo right-channel output. Connects to an amplifier or downstream device.

9.IN1: Mono / stereo left-channel input. Receives the original audio signal from an instrument.

10.IN2: Stereo right-channel input. Used together with IN1 for stereo signal input.

11.FS-L Footswitch:

Short press: Toggles the modulation effect on/off. Long press: Cycles through 9 modulation effects. RGB indicator: Lit = effect on, off = effect off.

12.FS-R Footswitch:

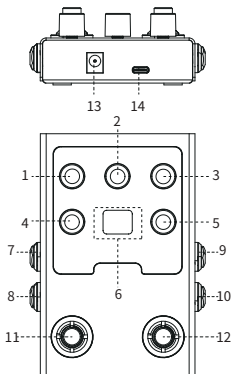
Repeated short presses: Set the TAP rate (tempo-sync modulation rate). The RGB indicator flashes at the set tempo.

When the RATE knob is used to adjust the rate, the RGB indicator does not flash.

TAP vs. RATE priority: The last used control (TAP or RATE knob) takes priority.

13.DC 9V Jack: Power input. Requires a 9V DC (center-negative) regulated power supply rated ≥ 300 mA.

14.USB-C Port: Used for computer connection, preset import, firmware updates, and audio recording/transmission. Supports 5V ≥ 300 mA power supply. When used for audio transmission, the wet-signal level is automatically reduced to prevent input-overload damage to connected devices.



Bypass Mode Description

DC 9V Jack: Power input. Requires a 9V DC (center-negative) regulated power supply rated ≥ 300 mA.USB-C Port: Used for computer connection, preset import, firmware updates, and audio recording/transmission. Supports 5V ≥ 300 mA power supply.

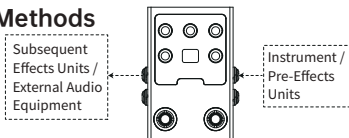
When used for audio transmission, the wet-signal level is automatically reduced to prevent input-overload damage to connected devices.

- **DSP Bypass Mode (DSP Bypass)** When the reverb effect is off but the reverb tail hold function is enabled, the device automatically switches to DSP bypass mode. The input signal is processed by the DSP to maintain the continuous output of the reverb tail while also being passed through to the outputs. In this mode, the input signal is still delivered completely to the corresponding output ports.

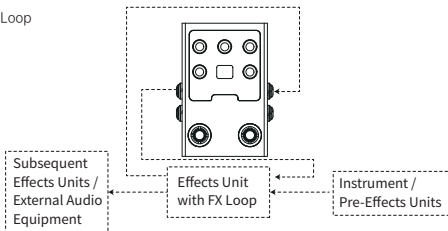
Connection Methods

• Mono Output

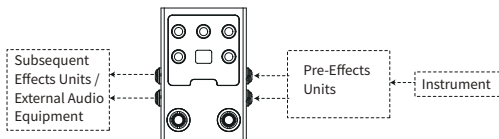
1. Effect Chaining



2. Effect Loop

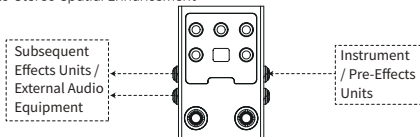


2. IN1 → OUT1, IN2 → OUT2 – True Stereo Independent Channels



• Stereo Output

1. Mono-to-Stereo Spatial Enhancement



Effect Descriptions

Effect Name Display	Effect Description	PARA1 Knob Control	PARA2 Knob Control
CH.	Simulates multi-voice layering for a lush, full, and spacious sound that adds width and depth.	Tone – Adjusts brightness/darkness of the effect.	Spread – Adjusts the spatial width of the chorus.
C1.	The warm, iconic synthesizer chorus—ethereal, smooth, and rich with vintage electronic texture.	Tone – Adjusts brightness/darkness of the effect.	Spread – Adjusts the spatial width of the chorus.
PH.	Uses phase-shifting to create sweeping, ethereal, and psychedelic filter-style sweeps with a transparent, dynamic sound.	Feedback – Adjusts feedback intensity.	Color – Adjusts the tonal color of the phase effect.
FL.	Comb-filtering produces intense metallic sweeps—futuristic, psychedelic, and sharply dynamic.	Feedback – Adjusts feedback intensity.	Manual – Sets the center point of the sweep.
7r.	Cyclic volume modulation for classic rhythmic pulsing.	Wave – Adjusts waveform shape/cutoff.	Smooth – Adjusts the smoothness/gradualness of the wave.
Ub.	Cyclic pitch modulation that mimics string-bending vibrato, adding expressive, animated character.	Wave – Adjusts waveform shape/cutoff.	Tone – Adjusts brightness/darkness of the effect.

RO.	Emulates a rotating speaker, creating a swirling, three-dimensional spatial movement.	Width – Adjusts the width of the rotating field.	Tone – Adjusts brightness/darkness of the rotary effect.
UU.	Vintage psychedelic effect blending phase-shifting and photo-cell modulation for a thick, dreamy atmosphere.	Swing – Adjusts the depth of the modulation sweep. Swing – Adjusts the depth of the modulation sweep.	Stereo – Adjusts stereo separation.
AH.	Automatically produces wah-style filtering in response to the input signal, for dynamic, fluid expression.	Sweep – Adjusts the sweep speed of the wah.	Shape – Adjusts the contour of the wah curve.

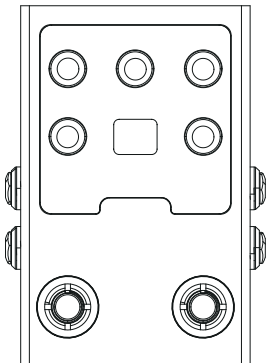
Technical Specifications

Modulation Effects	9
Input	2 x 1/4" Mono audio jacks, Input Impedance: 1 MΩ
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

立体声调制单块效果器



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※本公司有权对产品进行持续升级与优化，可随时调整产品的外观、规格参数、包装设计、配套配件及相关细节，前述调整恕不另行通知。产品图片因拍摄光线、设备屏幕显示差异等因素，可能与实物存在轻微色差，仅供参考。为确保您选购到符合需求的产品，请在购买前向当地经销商确认产品实际功能及规格。

产品概述

- **产品定位：**专业级双踩钉吉他 / 贝斯立体声调制单块，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，是打造丰富动态音色与立体空间质感的核心利器。
- **核心效果配置：**内置 9 款经典调制类效果，覆盖合唱、移相、颤音、UniVibe、自动哇音等全类型周边效果，算法精准、音色还原度高，满足不同曲风与演奏场景的音色塑造需求。
- **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，兼顾录音与立体声舞台演出，信号低损耗、输出纯净通透。
- **特色功能：**配备踩钉 Tap Tempo 功能，可实时同步效果速率，操作直观便捷；双踩钉设计兼顾效果开关与速率控制，适配独奏、乐队、氛围演奏等多元形式，音色层次与空间感出色，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；不使用或雷雨天气请拔掉电源。
- **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.RATE旋钮：调节调制速率。
- 2.PARA1旋钮：随当前所选调制效果映射不同控制参数。
- 3.PARA2旋钮：随当前所选调制效果映射不同控制参数。
- 4.DEPTH旋钮：调节调制深度。
- 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。

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。

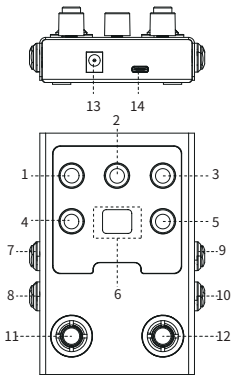
9.IN1：单声道 / 立体声左声道输入接口，接入乐器原始音频信号。10.IN2：立体声右声道输入接口，与 IN1 配合实现立体声信号输入。

11.FS-L 踩钉：短按切换调制效果开启 / 关闭；长按循环切换 9 种调制效果。RGB 指示灯常亮为效果开启，熄灭为效果关闭。

12.FS-R 踩钉：连续短按设置 TAP rate 调制速率，RGB 指示灯随设定速率闪烁；通过 RATE 旋钮调节调制速率时，RGB 指示灯不闪烁（TAP 与 RATE 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）。

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 ≥300mA 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。



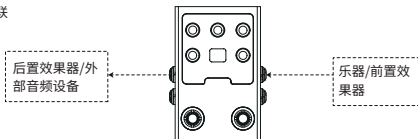
旁通模式说明

- 当调制效果处于关闭状态，设备将自动进入模拟旁通模式（Soft Bypass），输入信号不经过调制效果模块的处理，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）。

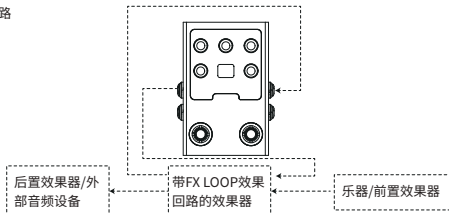
连接方式

• 单声道输出

1. 效果串联

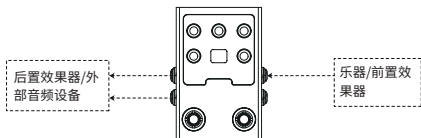


2. 效果回路

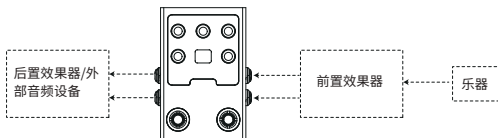


• 立体声输出

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	PARA1旋钮控制参数	PARA1旋钮控制参数
CH.	合唱(Chorus): 模拟多声部叠加的湿润合唱质感, 让音色更饱满、立体, 富有空间层次感。	Tone: 调节效果音色明暗	Spread: 调节合唱空间感
Cl.	经典合成器合唱(Synth Chorus): 合成器标志性温暖合唱, 音色空灵柔和, 充满复古电子乐质感。	Tone: 调节效果音色明暗	Spread: 调节合唱空间感
PH.	移相(Phaser): 通过相位偏移产生空灵迷幻的扫频效果, 音色飘逸通透, 动态变化丰富。	Feedback: 调节反馈强度	Color: 调节相位色调
FL.	镶边(Flanger): 梳状滤波带来强烈金属扫边声, 科幻迷幻, 动态锐利。	Feedback: 调节反馈强度	Manual: 设定扫频中心基点
7r.	颤音(Tremolo): 音量周期性强弱起伏, 经典律动型颤音效果。	Wave: 调节波形切割感	Smooth: 调节波形渐变与平滑度
Ub.	揉音(Vibrato): 音高周期性细微波动, 模拟演奏揉弦, 音色灵动有表现力。	Wave: 调节波形切割感	Tone: 调节效果音色明暗
r0.	旋转(Rotary): 模拟旋转扬声器声场, 营造环绕旋转的空间动态感。	Width: 调节旋转声场宽度	Tone: 调节旋转音色明暗
UU.	迷幻(Uni-Vibe): 经典复古迷幻效果, 融合相位与光耦调制, 氛围感慵懒浓郁。	Swing: 调节摆幅深度	Stereo: 调节立体声分离度
AH.	自动哇音(Auto Wah): 自动跟随输入信号产生哇音变化, 动态自然流畅。	Sweep: 调节哇音扫频速度	Shape: 调节哇音曲线形态

效果技术参数

调制效果	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）
附件	USB-C 数据线、说明书