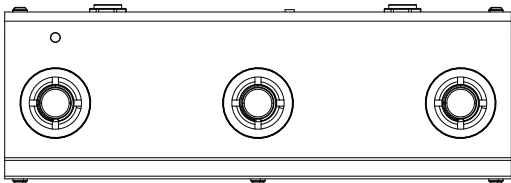


# M-VAVE

## TANK MINI

GUITAR/BASS INTELLIGENT PEDAL

### User Manual



- Website: [www.m-vave.com](http://www.m-vave.com)
- M-EFCS for Windows/Mac OS: <http://www.m-vave.com/appdownload>
- M-EFCS for Android/iOS: scan the QR code



TANK MINI is a portable and multifunctional Guitar/Bass effector. It has 21 editable Presets, the users also can customize effectors chain and save. It has built-in battery, it can last up to 7 hours on a full charge. TANK MINI has 6 effects Modules, it contains the Noise Gate, Boost, Compressor, 20 Preamp, 3-band EQ, 7 Modulations, 5 Delays, 6 Reverbs, 20 IR CAB slots.

You can download the computer software or mobile APP from our official channels, use it to edit presets, swap presets, share presets, import/export presets, and import the IR files, import the AMP module timbre data, besides you can restore the factory Settings or firmware upgrade on the computer. It support BT wireless music, earphone monitoring function, a sensitive Tuner, and computer sound card, etc. TANK MINI can be used as an audio interface with a cellphone, use a OTG converter (separately buying) and accessory USB cable to connect the cellphone, then enter any video/audio recording APP for direct recording. It integrates a variety of function, it is easy-carry and it has excellent sound! It could be a good partner of your music instruments.

### ■ The power supply:

It is equipped with built-in battery for power supply, which can last for 7 hours after full charge. It can charge with the 5V adapter or the power bank. When the battery run low, you can use the 5V 2A adapter, you need 4.75 hours to fully charge the battery. When the battery run low, don't use it for a long time to avoid unstable working performance, please charge it in time.

### ■ The connection:

Be sure to turn off the power of related equipment before connecting or disconnecting the device.

### ■ The electrical interference:

The electromagnetic wave of radio, television and other equipment may cause interference to the equipment, so please try to stay away from radio, television and other equipment.

### ■ The location:

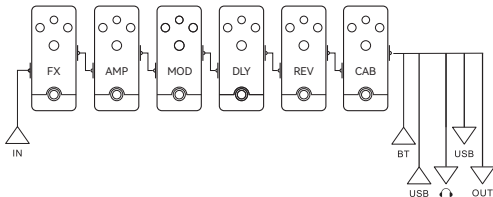
To avoid deformation, discoloration, or other serious damage, do not expose this unit to the following conditions:

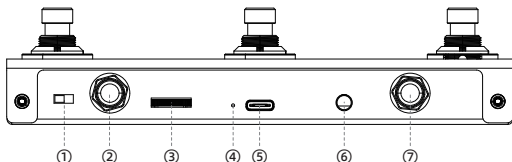
- Heat sources
- Magnetic fields
- Sunlight
- High temperature or moist district
- Excessively dusty or dirty locations
- Strong vibrations or shocks

## III. Effectors chain diagram

**EN**

(The order of the 6 effects Modules can be customized.)





① **Power switch.**

② **IN:** Connects to the guitar/bass signal input.

③ **Volume Knob:** Control the volume. (Note: The BT volume and USB input volume are not controlled by this knob.)

④ **Charging indicator:** When the battery is normally using, the indicator will go off; During charging, the indicator will stay red, then it will change to a different color after fully charging.

⑤ **USB jack:** Use to charge the battery/The TANK MINI can be sound card of computer/Computer software can be connected for interactive data transmission/OTG recording.

**Tips:** TANK MINI can be used as an audio interface with a cellphone, use a OTG converter (separately buying) and accessory USB cable to connect the cellphone, then enter any video/audio recording APP for direct recording or playback music.

⑥ **Headphone Output:** Connects to monitoring headphones.

⑦ **OUT:** Connects to a speaker or mixer.

① **Wireless BT Indicator Light:** TANK MINI includes wireless BT function, which can be used to control parameters by mobile phone after successful APP connection, and also supports wireless music, which is convenient for users to play accompaniment during practice or performance. You hold the A+B footswitches for

2s to turn on/off BT. When the BT indicator off, the BT function had been turned off; when the indicator flashing, it means that BT is turning on, but not in connection; when the indicator lighting up, it means the BT has been connected.

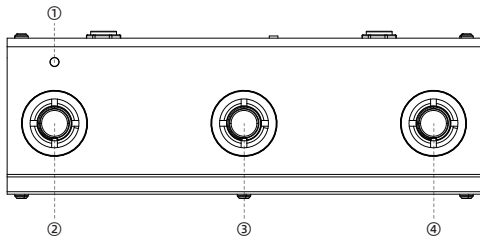
② **Footswitch A:** Footswitch A can turn preset A on/off (off state is bypass).

③ **Footswitch B:** Footswitch B can turn preset B on/off (off state is bypass).

④ **Footswitch C:** Footswitch C can turn preset C on/off (off state is bypass).

**Tips1:** When the TANK MINI is in BYPASS, all three Foot switch-lamp are steady on at the same time, indicating that the machine is in BYPASS now.

**Tips2:** You can use the 3 footswitches to save the current Preset (2A, for example) overwrite to any of the 21 Presets. It's very simple, under the current Preset, tap BANK-or BANK+ to select your target group (seven group, for example), now the three white-footswitches will continue flashing slowly, this will indicate that you are ready to select the seven BANK. Then hold the A/B/C footswitch(B footswitch, for example), after this operation, you had copied and pasted the 2A preset to the 7B preset. the B-footswitch blinks quickly, indicating "Save successfully".



### Preset Groups (Group is the BANK)

Presets are divided into 5 guitar groups and 2 bass groups (3 presets per group): Red for the first group, Green for the second group, Blue for the third group, Yellow for the fourth group, Purple for the fifth group, Cyan for the sixth group (bass), White for the seventh group (bass).

**1. Simultaneously short press Footswitch A + B:** BANK-.

**2. Simultaneously short press Footswitch B + C:** BANK+.

**Note:** During bank switching mode, the 3 footswitches lights will flash slowly to indicate an unconfirmed state. Short press any footswitch again to confirm the preset selection.

**3. Low Battery Indication:** In any preset state, fastly flashing of the one footswitch light remind you the battery is low. Low battery status will not be displayed in BYPASS mode and BANK switching mode and TUNER mode.

**4.Tuner function:** Hold the B+C footswitches for 2 seconds, the Tuner can be enabled (The standard A's frequency is 440Hz, you can modify 430-450 in the software). When tuning, the guitar sound is in BYPASS state (The BYPASS VOL 0-100 can be adjusted in the software).

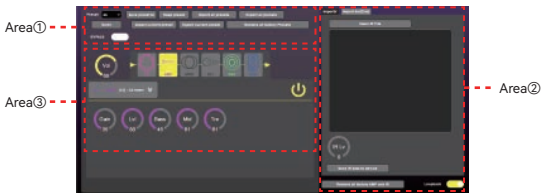
When you're tuning, the three Footswitches lights can indicate the Pitch, if you need to observe the note name, you need to go to APP interface.

When the machine receives the signal of string, the left light indicates that the pitch is low, the right is the opposite, and the middle light continues to light up, indicating strong intonation.

When TANK MINI does not receive the instrument signal for the time being, the three footswitches lights will flash once every 5 seconds to represent that the machine is still in tuning mode.

**Note:** This section is the details of software operation. The three footswitches can be used to select the Presets, but the details of the sounds need to be paired with a mobile or computer software for use.

**Attention:** The above image shows the display screen of the software.

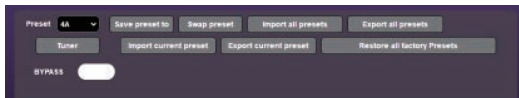


**Tips:** Loopback function, a common function on sound cards, can be enabled or disabled in software, it is set to the "on" position in factory condition.

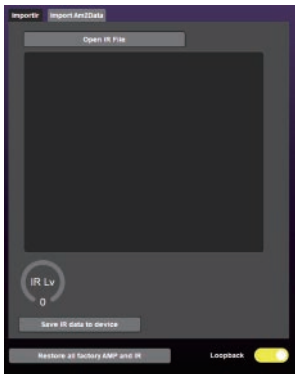
When the function is turned on, the music in the computer/mobile phone will be recorded at the same time with the instrument sound, it's the same track mixed recording, including USB and BT music.

If the function is turned off, when using the TANK MINI as a sound card for recording, only the IN-interface instrument sounds can be recorded, which is more convenient for sub-track recording of instrument sounds during computer recording.

Area①: Preset management interface.



Area②: CAB and AMP module management interface.



Area③: The current preset detail parameter adjustment interface.





## I: FX Module

### 1. Noise Gate

- Gate parameter: Adjust the threshold of Noise Gate, When set to 0, the effect is turned off.

### 2. Boost(Noise Gate can be added)

- Gate parameter: Adjust the threshold of Noise Gate, When set to 0, the Noise Gate is turned off.
- Gain parameter: Adjust the gain of the Boost.

### 3. Compress(Noise Gate can be added)

- Gate parameter: Adjust the threshold of Noise Gate, When set to 0, the Noise Gate is turned off.
- Sustain parameter: Adjust the compression amount.
- Attack parameter: The starting time of the compressor after the signal exceeds the threshold, the larger the value, the slower the compression starting time, and the more prominent the auditory sound-head; The smaller the value, the faster the startup time.
- Level parameter: Use this parameter to adjust the output volume of this Module again.

## II: AMP Module (1-15 is guitar preamp, 16-20 for bass preamp)

SLOT	NAME	TYPE
1	Based on UWE-Twins	Clean
2	Based on UK-C30Normal	Clean
3	Based on MarsVM410	Overdrive
4	Based on Victor_Mars	Overdrive
5	Based on BritPLEX_100	Overdrive
6	Based on MarsFD100	Dist
7	Based on Eagle_SAVAGE	Dist
8	Based on TH_DieselHgn	Dist
9	Based on PvEV5150	Dist
10	Based on FORTIN_CALI	Clean
11	Based on MESS_MktCln2	Clean
12	Based on CA-tweed	Clean
13	Based on BogSV20	Overdrive
14	Based on JUICE_JIM	Dist
15	Based on Shur_SL68	Dist
16	Based on BasADAtube	
17	Based on BasAlembic	
18	Based on BasG800K_7	
19	Based on BasTR-Trad	
20	Based on BasMarkt501	

**Note:** The brand and model names mentioned above are Trademarks of their respective owners, which are in no way associated with TANK MINI. It was only used to identify the sound character. We will constantly update the timbre without notice, may be different from the real thing, the actual object prevails.

### III: Modulation Module

#### 1. Chorus

- Speed
- Depth
- Mix: Adjust the dry and wet ratio.

#### 2. Phaser

- Speed
- ParamA: Extended function parameter A.
- ParamB: Extended function parameter B.
- Feedback: Adjust the feedback amount of Phaser.

**3. Tremolo**, it is basically a change of the signal level controlled by an Low-frequency Oscillator.

- Speed
- Depth
- Level parameter, Use this parameter to adjust the output volume of this Module again.

**4. Flanger**, it is use the same principle as Chorus, but it uses a shorter delay time and adds regeneration(or repeats) to the modulating delay. This results in an exaggerated up and down sweeping motion to the effect.

- Speed
- Depth
- Feedback: Adjust the amount of feedback for the sweep effect in wet sound.
- Mix: Adjust the dry and wet ratio.

**5. Vibrato**, The vibrato effect modulates the pitch of the incoming signal. The result is similar to the Tremolo technique used by vocalists. In contrast to a Chorus or Flanger effect, no direct signal is combined with the pitch-modulated signal.

- Speed
- Depth

**6. Univibe**, a unique timbre, a combination of chorus and phaser.

- Speed
- Depth
- Mix

## **7. Autofilter**

- Speed
- Min: Minimum frequency of the filter sweep frequency, when the value is turned up, the middle and low frequency parts of the wet sound are more prominent.
- Max: Maximum frequency of the filter sweep frequency, when the value is turned up, the middle and high frequency parts of the wet sound are more prominent.
- Mix
- Feedback

## **IV: Delay Module**

**1. Analog**, it is the delay effect of the signal of the analog tube, and the timbre has the characteristics of retro and warm.

- Time: Adjust the feedback speed of echo repeats, 600-60bpm.
- Feedback: The feedback times of echo repeats.
- Mix: Adjust the dry and wet ratio.
- Phaser: The Phaser effect is increased in the Delay wet sound. This parameter can adjust the amount of Phaser used.
- Pitch: We add a little detuning effect to the delay wet sound, this parameter adjusting the pitch of the detuning effect, which is a slightly shifted sound, a retro and charming sound.

**2. Ducking Delay**, When we process the delayed wet sound, we add the Noise Gate to the part before the wet sound. Thus, the front part of the wet sound is suppressed to achieve a front evasive effect, and the sound is gradually increased, the dynamics of the delay are more 'felt' than 'heard'.

- Time: Adjust the feedback speed of echo repeats, 600-60bpm.
- Feedback: The feedback times of echo repeats.
- Mix: Adjust the dry and wet ratio.

- **Unpack:** After this parameter is turned up, the sudden rise in the volume of the wet rear part can be unpacked, so as to achieve a smoother delay dynamic.

- **Speed:** The Chorus effect is increased in the Delay wet sound. This parameter can adjust the speed of Chorus used.

- **Depth:** This parameter adjusts the depth of the Chorus.

**3. dTape, Tape delay,** it replicates the unique delay style of tape machine, you can not only get the warmth and silky of professional grade tape machine, but also simulate the sound effects of tape in real situations such as CRINKLE, BIAS, and so on.

- **Time:** Adjust the feedback speed of echo repeats, 600-60bpm.

- **Feedback:** The feedback times of echo repeats.

- **Mix:** Adjust the dry and wet ratio.

- **Grit:** The GRIT takes on the function of TAPE BIAS. This parameter adjusts tape machine bias, from under biased to over-biased, it sounds like an overdrive of wet sounds. Bias sets the dynamic range and headroom of the wet signal.

- **Speed:** The SPEED takes on the function of TAPE CRINKLE. This parameter adjusts the amount and severity of tape irregularities, including friction, creases, splices and contaminants. Tape Crinkle characteristics track accordingly to tape speed. Set to minimum for a fresh, clean tape. Set to maximum for a tape that has been mangled and chewed for years.

- **Depth:** This parameter control varies the amount of mechanically related tape speed fluctuations. This also results in natural tape machine style modulation, it's like a chorus. Parameter minimum for a more tuned, cleaned and serviced tape machine. Parameter maximum to hear the sound of a tape machine in need of service. In between the extreme settings, a natural tape modulation is achieved.

**4. Dual Delay,** two independent delay echoes, the time-lag of the first echo and the second echo achieves a very interesting delay rhythm effect.

- **Time:** Adjust the feedback speed of echo repeats, 1200-120bpm.

- **Feedback:** The feedback times of echo repeats.

- Mix: Adjust the dry and wet ratio.
- Time-Mode: Adjust the time-lag between the two echoes, the minimum is the equivalent of no time-lag, and the greater the number, the greater the time-lag.
- Speed: The Chorus effect is increased in the Delay wet sound. This parameter can adjust the speed of Chorus used.
- Depth: This parameter adjusts the depth of the Chorus.

**5. Lofi Delay**, a special, retro and destructive delay effect, the wet sound reflects the filter, the vinyl record, the noise lo-fi and many other senses.

- Time: Adjust the feedback speed of echo repeats, 600-60bpm.
- Feedback: The feedback times of echo repeats.
- Mix: Adjust the dry and wet ratio.
- Grit: When the parameter is turned up, it sounds like a overdrive wet sound.
- Speed: The Chorus effect is increased in the Delay wet sound. This parameter can adjust the speed of Chorus used.
- Depth: This parameter adjusts the depth of the Chorus.

## V: Reverb Module

**1. Room reverb**, it simulates a relatively small, simple-structured room sound where many reflections are absorbed by soft material in the room, and sound is reflected by walls.

- Decay: Adjust the duration of echo.
- Mix: Adjust the ratio of wet and dry.
- HPass: HIGH pass, only used to regulate wet sound.
- LPass: Low pass, only used to regulate wet sound
- Depth: The pitch of wet sound produces a small cyclical rise and fall, you will hear vintage and charming background sound.

**2. Hall reverb**, it gives a wide, slightly scattering feeling, it simulates a grand ambient sound.

- Decay
- Mix
- HPass
- LPass
- Depth

**3. SWELL reverb**, the Swell machine brings in the reverb gradually behind the dry signal for subtle evolving textures, like having a volume pedal on the wet sound.

- Decay
- Mix: If the dry sound is removed, and set the RiseT parameter to 0, it can mimic the sound of string instruments such as the violin.
- HPass
- LPass
- RiseTime: It adjusts the rise time of the swelled signal, I suggest you choose shorter times for single-line soloing or longer times for ambient chord work.

**4. Spring reverb**, it is a common type of reverberation. The sound signal is transmitted to the spring tank, and the pickup picks up the resonant sound of the spring tank, to mimics the reverberation effect produced in space.

- Decay
- Mix
- HPass
- LPass
- Combs: Control the number of springs.

**5. Shimmer reverb**, there is a pitch-shift sound in the wet sound. Adjust the pitch of the pitch-shift sound, you can get the dissonant interval, create a scary background sound. You also can get the harmonic interval, it's a wonderful sound, a resplendent and unearthly ambience. The Amount parameter allow for a range of shimmer effects from laid-back and subtle to full-blown majestic splendor.

- Decay
- Mix
- Tone: Adjust the brightness of the reverb wet sound.
- Pitch: Adjust the pitch of the pitch-shift sound, the minimum value is the same as the original sound, the maximum value is two octaves above the original sound.
- Amount: Adjust the amount of pitch-shift sound.

**6. Cloud reverb**, is a gorgeous large ambient reverberation, it sounds like the music come from all sides of the cloud. Cloud reverb can take any modest guitar or synth sound and turn it into a gorgeous ensemble.

- Decay
- Mix
- HPass
- LPass
- Diffusion: Softens the early reflections to create a more diffused reverb. As Diffusion is increased, the reverb is smoothed and softened, the delay and reverberation mix together more naturally.

**VI: IR CAB Module** (1-15 is guitar CAB simulator, 16-20 is bass CAB simulator)

SLOT	NAME	CAB TYPE
1	Based on EagleProV30s	4x12
2	Based on Sperimental	4x12
3	Based on JUICE4x12V30	4x12
4	Based on Mess Boogie	4x12
5	Based on FendChamp	1x8
6	Based on FendPrJunir	1x10
7	Based on Mar1960BV30	4x14
8	Based on DiezelV30	4x12
9	Based on Electrovoice	2x12
10	Based on MessDRectV30	4x12
11	Based on TwinJensen	1x12
12	Based on TwedDlx1X12	1x12
13	Based on FendShowman	4x12
14	Based on JC120Roland	2x12
15	Based on AC30Silvers	2x12
16	Based on BassAguila25	4x10
17	Based on BassJensen10	4x10
18	Based on FdBassman	4x10
19	Based on BassAmpeg410	4x10
20	Based on BassEDEN300	4x10



**Note:** The brand and model names mentioned above are Trademarks of their respective owners, which are in no way associated with TANK MINI. It was only used to identify the sound character. We will constantly update the timbre without notice, may be different from the real thing, the actual object prevails.

- Level
- Low cut, Adjust the low cut point, optionally 20-300 Hz. If you choose 300 Hz, it means that low frequencies below 300 Hz are suppressed.
- High cut, Adjust the high cut point, optionally 18000-5000 Hz. If you choose 5k Hz, it means that high frequencies above 5000 Hz are suppressed.

## VIII. Technical parameters

EN

Input	Standard 1/4" jack MONO/TS
Output	Standard 1/4" jack MONO/TS, 1/8" Stereo jack
Sample rate	44.1KHz/24bit
Size	165(L)x60(W)x40(H)mm
Weight	About 325g
Power supply& USB data transmit	Type-C、 5V≥300mA
Battery capacity	1500mAh
Battery Model/Type	103048
Battery Nominal Voltage	3.7V
Battery life	7 hours
Charging current limit	About 400 mA
Dynamic Range	105dB
Total effects	60+
Effects Slots/Effects Modules	Total of 6+1 simultaneous effects slots, it can customized the order
Presets amount	21
USB AUDIO(OTG)	44.1K/24Bit, support Loopback ON/OFF
BT music	Support
Software support	WINDOWS,MAC,IOS,Android
IR processing	44.1K/24Bit Mono WAV files, 1024 sampling points
Power supply	Built-in battery or USB 5V
AMP modeler	Totally 20 (1-15 is electric guitar preamp, 16-20 for bass preamp)
IR slots	Totally 20 (1-15 is electric guitar CAB, 16-20 for bass CAB)
Working current	About 250 mA
Attachment	USB cableX1

- **Official APP download:**



scan the QR code

- **APP using tips:**

Before operation, make sure that the BT of the cellphone and TANK MINI are both turned on, then run the APP and click the "☰" button, click the "Current Device" and select the "TANK MINI", then scan nearby devices, you can connect to use.

- We will continue to improve our products and reserve the right to modify certain functions and specifications (including but not limited to appearance, packaging design, operation manual, accessories, dimensions, specifications, displays, etc.) without prior notice. Please confirm the product functions and specifications with the local distributor before the purchase. Product pictures and color due to the light error and screen admiration setting. It may be different from the physical product effect. Please refer to the physical object accordingly.

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

### FCC Radiation Exposure Statement

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

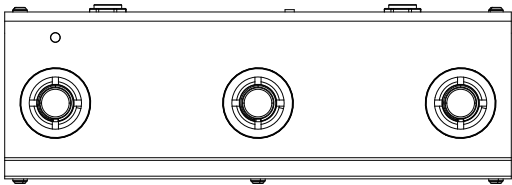
- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

# M-VAVE

## TANK MINI

多功能吉他/贝斯效果器

### 说明书



- 官网: [www.m-vave.com](http://www.m-vave.com)
- 电脑端Windows/Mac OS下载网址: <http://www.m-vave.com/appdownload>
- 手机端Android/iOS下载APP: 扫描二维码下载



TANK MINI是一款多功能吉他/贝斯效果器。TANK MINI有21个出厂预设，用户可自定义音色进行覆盖储存，也可以对预设音色进行编辑和保存。本产品内置蓄电池，充满电后可持续使用续航7小时。TANK MINI具备6个效果模块，包含了降噪效果器、Boost效果器、压缩效果器、20种经典的箱头音色模拟、三段EQ调节器、7种调制效果、5种延时效果、6种混响、20种经典的IR箱体模拟。

可从我司官方渠道免费下载配套的电脑软件或者手机APP软件，支持使用软件编辑、交换、共享、导入/导出音色数据、导入IR文件和导入AMP模块音色数据，使用电脑软件还可对本机恢复出厂设置和进行固件升级等等。另外它还带有多无线BT音乐播放功能，调音器功能，耳机监听功能，手机OTG内录功能，电脑声卡功能等等。多种功能效果集于一身，体积小性能好，便于携带且音色优秀，是您不错的乐器伴侣。

### ■ 电源供应:

本机设有内置电池供电，充满电后可持续使用7小时，建议使用5V 2A充电器或充电宝为本机进行供电，本机支持充电&用电同步进行。在本机内置电池耗尽的状态下进行充电，大概4.75小时可以充满。电量不足时，请勿长时间使用，以避免不稳定的工作性能，请及时充电。

### ■ 连接:

当连接或断开设备前，请先关闭其他相关设备。

### ■ 电器干扰:

收音机、电视机等电磁波可能会对设备使用造成干扰，因此请尽量远离收音机和电视机等设备。

### ■ 放置场所:

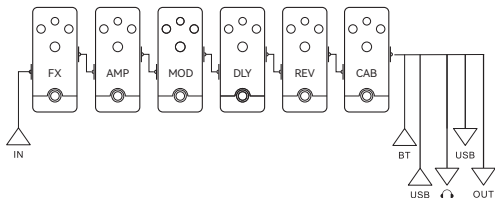
为防止变形、变色和其他方面等对产品造成损坏，请避免以下情况:

- a. 热源
- b. 磁场
- c. 阳光直射
- d. 高温潮湿
- e. 多尘或不洁地方
- f. 强烈震荡或摇晃

### III. TANK MINI 的效果模块连接图

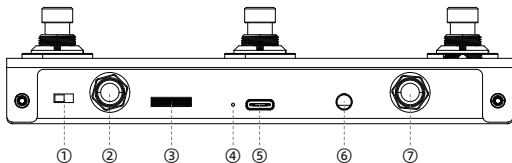
CN

(6个效果模块的顺序可自定义移动)



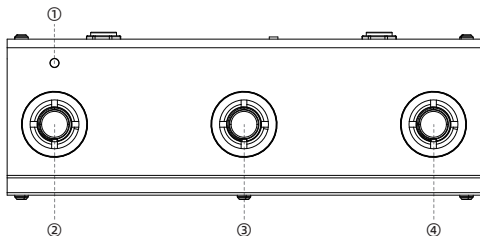
### IV. 后置面板功能图解

CN



- ① 电源开关。
- ② IN: 连接吉他/贝斯信号输入。
- ③ 音量旋钮: 控制音量大小 (BT音量和USB输入音量不受此旋钮控制)。
- ④ 充电指示灯: 开机后, 本机在正常使用时指示灯为熄灭状态。充电时指示灯为红灯常亮, 充满电时灯转色。
- ⑤ USB接口: 供电、电脑声卡、电脑数据交换传输、OTG内录或回放等功能。温馨提示:使用本机附带的USB线和另购的OTG转换器, 可连接到手机第三方APP软件进行音画同步实时内录。
- ⑥ 耳机输出: 连接监听耳机。
- ⑦ OUT: 连接音箱或调音台。





① **无线 BT 指示灯**: TANK MINI 包含有无线 BT 功能, APP 连接成功后可用于手机控制音色参数, 也支持无线音乐播放, 方便用户在练习或演奏中播放伴奏, 长踩 A+B 踩钉 2 秒, 可开启/关闭 BT 功能。当 BT 指示灯熄灭即代表功能已关闭; 当 BT 指示灯闪烁, 代表设备未连接成功; 当与手机/平板连接成功后, 指示灯长亮。

② **踩钉 A**: 踩钉 A 可以开启/关闭预设 A (关闭预设状态为 bypass)。

③ **踩钉 B**: 踩钉 B 可以开启/关闭预设 B (关闭预设状态为 bypass)。

④ **踩钉 C**: 踩钉 C 可以开启/关闭预设 C (关闭预设状态为 bypass)。

**注意**: 当机器进入 BYPASS 状态时候, 三个踩钉灯都会同时常亮, 以代表机器处于 BYPASS。

**温馨提示**: 利用 3 个踩钉, 可支持把当前的预设音色(比如 2A)覆盖保存到 21 个预设的任意一个。方法很简单, 只需要在当前预设下, 短按 BANK- 或者 BANK+ 选择您的目标组(比如第 7 组), 此时 3 个白色踩钉灯会持续慢闪, 以此来提示您即将要选择第 7 个 BANK, 然后长按 A/B/C 任意一个踩钉(比如 7B), 即可把刚才的 2A 预设音色进行复制黏贴到 7B 预设, 完成了一次覆盖保存, 此时 B 踩钉灯会快速闪烁, 以提示“保存成功”。

### 预设分组（一组为一个BANK）

预设分为5组吉他音色和2组贝斯音色（每组3个）：

红色为第一组、绿色为第二组、蓝色第三组、黄色第四组、紫色第五组、青色第六组（bass）、白色第七组（bass）。

1. 同时短按踩钉A+B为向下翻页（BANK-）。

2. 同时短按踩钉B+C为向上翻页（BANK+）。

注：翻页状态时3个踩钉指示灯慢速闪烁表示未确定状态，需再次短按任意踩钉确认选择预设。

### 3. 电量不足显示：

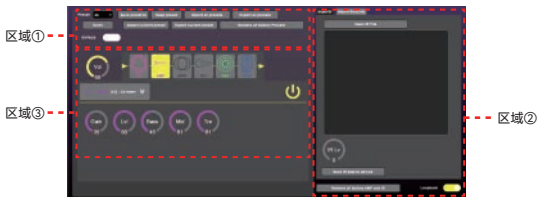
在某一预设状态下1个踩钉灯快速闪烁时，就是提醒您电池处于缺电状态。

BYPASS状态和BANK翻页状态和调音器状态中不会显示电量不足。

4.调音器功能：长踩B+C踩钉2秒，可开启调音器（A音基准频率默认为440HZ，可到软件修改430-450），调音状态下吉他声默认设置为BYPASS状态(可到软件调节BYPASS VOL 0-100)，此时三个踩钉可提示当前的音准性，如果需要观察此时的音名则需要到APP界面。当本机接收到乐器信号时候，左踩钉亮起表示音偏低，右踩钉则相反，中间踩钉持续亮起表示音准性强。如果在调音器模式下，主机暂时未收到乐器信号的时候，三个踩钉灯会5秒闪烁一次，以代表目前机器仍然处于调音模式。

温馨提示：此栏目的功能介绍，为软件操作的细节。此产品的踩钉可用于预设音色的选择，但是音色的细节需要搭配手机或者电脑软件来使用。

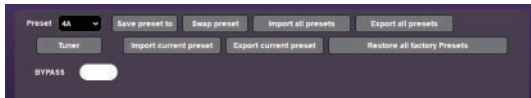
(注意：下图为软件显示画面)



温馨提示：Loopback 功能，是常见的声卡回环功能，可到软件上开启或者关闭，默认出厂为开启状态。

功能开启时，电脑/手机内的音乐会与乐器声同时录制，同一轨道混合录制，其中包括USB 和 BT 的音乐声。如果功能关闭，使用 TANK MINI 作为声卡进行录音时候，只能录制到IN 接口的乐器声，这样更便于电脑录音时候进行乐器声分轨录音。

区域①：预设管理界面。



区域②： CAB 和 AMP 模块管理界面。



区域③： 当前预设细节参数调节界面。



## 一：FX多功能模块

### 1. Noise Gate降噪功能

● Gate参数：调节参数可控制降噪门限，调至0时为关闭降噪效果。

### 2. Boost激励功能（可叠加降噪功能）

● Gate参数：调节参数可控制降噪门限，调至0时为关闭降噪效果。

● Gain参数：调节激励效果的增益度。

### 3. Compress压缩功能（可叠加降噪功能）

● Gate参数：调节参数可控制降噪门限，调至0时为关闭降噪效果。

● Sustain参数：综合了压缩的阈值，压缩比率等等的参数，数值越大压缩效果越明显。

● Attack参数：信号超过阈值后压缩器的启动时间，数值越大，压缩启动时间越慢，听觉上的音头更加突出；数值越小，启动时间越快。

● Level参数：控制模块的最终输出音量。

## 二：AMP箱头模块（1-15个为吉他音箱模拟，16-20个为贝斯音箱模拟）

SLOT	NAME	TYPE
1	Based on UWE-Twins	Clean
2	Based on UK-C30Normal	Clean
3	Based on MarsVM410	Overdrive
4	Based on Victor_Mars	Overdrive
5	Based on BritPLEX_100	Overdrive
6	Based on MarsFD100	Dist
7	Based on Eagle_SAVAGE	Dist
8	Based on TH_DieselHgn	Dist
9	Based on PvEV5150	Dist
10	Based on FORTIN_CALI	Clean
11	Based on MESS_MktCln2	Clean
12	Based on CA-tweed	Clean
13	Based on BogSV20	Overdrive
14	Based on JUICE_JIM	Dist

SLOT	NAME	TYPE
15	Based on Shur_SL68	Dist
16	Based on BasADAtube	
17	Based on BasAlembic	
18	Based on BasG800K_7	
19	Based on BasTR-Trad	
20	Based on BasMarkT501	

注：以上所提及的厂商及产品名称仅用于描述TANK MINI的音色特点，无其他意图，商标名称归其公司所有。我们将不断更新音色，恕不另行通知，可能与实物有所差异，请以实物为准。

### 三：Modulation周边效果模块

#### 1. Chorus合唱效果

- Speed: 调节效果速度。
- Depth: 调节效果深度。
- Mix: 调节效果湿声和干声的比例。

#### 2. Phaser相移效果

- Speed: 调节效果速度。
- ParamA: 拓展功能调节参数 A。
- ParamB: 拓展功能调节参数 B。
- Feedback: 调节湿声的反馈量。

#### 3. Tremolo颤音效果，使用低频振荡器来调制声音的输出电平。

- Speed: 调节效果速度。
- Depth: 调节效果深度。
- Level参数: 控制模块的最终输出音量。

#### 4. Flanger弗朗格效果，跟合唱类似的声音，但是使用一个更短的延时时间并且增加反馈参数，产生一个强烈频率的扫描效果。

- Speed: 调节效果速度。
- Depth: 调节效果深度。
- Feedback: 调节湿声里的扫频效果的反馈量。
- Mix: 调节效果湿声和干声的比例。

**5. Vibrato震音效果**，信号的音调会有周期性的升高降低，其结果与声乐家使用的颤音技术相似。与合唱或 Flanger效果相反，没有直接信号与音高调制信号相结合。

- Speed: 调节效果速度。
- Depth: 调节效果深度。

**6. Univibe多谐振荡器效果**，一种独特的音色，合唱和相移两种效果的结合。

- Speed: 调节效果速度。
- Depth: 调节效果深度。
- Mix: 调节效果湿声和干声的比例。

### **7. Autofilter自动滤波器**

- Speed
- Min: 滤波器扫频的频率最小值，数值开大后可让湿声的中低频部分更加突出。
- Max: 滤波器扫频的频率最大值，数值开大后可让湿声的中高频部分更加突出。
- Mix
- Feedback

## **四：Delay延时效果模块**

**1. Analog模拟延时效果**，模拟电子管的信号的延迟效果，音色具有复古、温暖等特点。

- Time: 延时效果时间速度参数，600-60bpm。
- Feedback: 调节延迟的反馈次数。
- Mix: 调节干湿比。
- Phaser: 可在在Delay湿声增加相移效果，此参数可调节相移效果的使用量。
- Pitch: 调节失谐效果的PITCH参数，相当于在延迟湿声加入了一点失谐效果，是一种轻微移调的声音，一种复古且迷人的声音。

**2. Ducking闪避延迟**，我们在处理延时湿音时候，在湿音发声前部分加入了降噪效果，从而抑制湿音的前部分声音，达到一种前面闪避的效果，有慢慢增大的声音听感。通过非常轻微的闪避，延迟的动态更多的是“感觉到”而不是“听到”。

- Time: 延时效果时间速度参数, 600-60bpm。
- Feedback, 调节延迟的反馈次数。
- Mix: 调节干湿比。
- Unpack 解除: 参数调大后, 可解除湿声后部分音量的突然上升感觉, 从而达到一种更平缓的延时动态。
- Speed: 可在在Delay湿声增加合唱效果, 此参数可调节合唱效果的速度。
- Depth: 合唱的深度。

**3. dTape磁带延时**, 它复刻了磁带机特有的延时风格, 你不仅能获得专业级别磁带机的温暖和丝滑, 而且能模拟磁带在褶皱、偏差等等真实情况下的声音特效。

- Time: 延时效果时间速度参数, 600-60bpm。
- Feedback: 调节延迟的反馈次数。
- Mix: 调节干湿比。
- Grit: 这个参数调整磁带机的偏差, 从欠偏差到过偏差, 听起来就像湿音过载的感觉。它用于调整延迟湿音的动态范围和余量。
- Speed: 使用 speed 参数来控制磁带不规则的量和严重程度, 包括摩擦、折痕、拼接和污染物。使用最小值以获得清新、干净的磁带延时, 也可使用最大值来获得多年来被破坏和腐蚀的磁带声音。
- Depth: 该参数改变与机械相关的磁带速度波动的量。这也导致自然磁带机产生带类似合唱的声音。在参数最小值时, 可以获得更和谐的音色, 类似一个状态很好的磁带机。参数最大值时, 听到一个感觉需要维修的磁带机的声音。在中间的参数, 实现了比较自然的磁带音色。

**4. Dual双延迟**, 两个独立的延时回音, 第一个回音和第二个回音的时差比例可达到非常有趣的延迟节奏效果。

- Time: 延时效果时间速度参数, 1200-120bpm。
- Feedback: 调节延迟的反馈次数。
- Mix: 调节干湿比。
- Time-Mode: 时间模式, 调节两个回音之间的时差, 最小值时候就相当于没有时差: 数值越大时差越大。
- Speed: 可在在Delay湿声增加合唱效果, 此参数可调节合唱效果的速度。
- Depth: 合唱的深度。



**5. Lofi低保真延时**，一种特殊、复古且具有破坏性的延时效果，延时湿音里体现了过滤器，黑胶唱片，噪音低保真等多种感觉。

- Time: 延时效果时间速度参数，600-60bpm。
- Feedback: 调节延迟的反馈次数。
- Mix: 调节干湿比。
- Grit: 当参数调大时，听起来像是湿音过载的感觉。
- Speed: 可在在Delay湿声增加合唱效果，此参数可调节合唱效果的速度。
- Depth: 合唱的深度。

## 五：Reverb混响效果模块

**1. Room房间混响效果**，房间混响模拟结构简单的房间声音，其中许多反射被房间中的软材料吸收，声音被墙壁反射。

- Decay: 调整回声效果的持续时间。
- Mix: 调节干声和混响湿音的音量比例。
- HPass: HIGH PASS高通,仅作用于湿音。
- LPass: LOW PASS低通,仅作用于湿音。
- Depth: 使混响湿音产生音调的小幅度周期性升高降低,得到一种复古迷人的背景声音。

**2. Hall大厅混响效果**，大厅混响给人一种宽阔的,轻微散射的感觉。它能模拟宏大的环境声音。

- Decay
- Mix
- HPass
- LPass
- Depth

**3. SWELL膨胀混响**，在干信号之后逐渐带入混响效果，两个信号间进行自然的衔接，以获得轻微的上升效果和演变氛围感，就像有个可以控制混响湿音的音量踏板。

- Decay
- Mix: 如果把干音去除，再把RiseT参数调到0，可以模仿提琴等弦乐乐器的音色。
- HPass
- LPass
- RiseTime上升时间: 当参数加大时，上升时间会变长，听觉上的膨胀效果会减弱，适合用于演奏和弦节奏；反之上升时间变短时候，适合用于演奏旋律。

**4. Spring弹簧混响效果**，弹簧混响是常见的混响类型，声音信号放大到弹簧上，然后拾音器捕捉到弹簧的共振声，从而形成人们在空间中听到的混响，弹簧混响的特点是来自弹簧的独特颤抖感。

- Decay
- Mix
- HPass
- LPass
- Combs: 控制弹簧的数量。

**5. Shimmer微光混响效果**，微光混响，是一种在混响湿音中存在音高偏移的声音。通过PITCH参数的调节，可调整微光声音的音高，可调出不和谐音程，营造出恐怖的背景声音，这是非常创造性的用法。也可调出和谐音程，创造出一种自带美颜的声音，在混响尾音部分会听到犹如微光汲汲传动的微妙声音，如一种天堂中的声音，给人感觉像在开阔的土壤上，遇见日出从微光到全面灿烂的过程。

- Decay
- Mix
- Tone: 调节混响湿声的明亮度。
- Pitch: 调节微光声音的音高，最小值为音高跟原声一致，最大值为比原声高两个八度。
- Amount, 控制微光声音的用量。

**6. Cloud云混响效果**，一种华丽的大型环境混响，听起来像是声音从云层卷积而来，仅仅弹一个音符，在混响湿音中就出现非常多的声音从各处传来，声音听起来非常宽广。

- Decay
- Mix
- HPass
- LPass
- Diffusion扩散度: 可调节环境维度感，当参数增大时，早期反射的混响湿音被软化，听起来更平滑，模糊了延迟和混响之间的界限。

**六：IR CAB箱体模块**（1-15为电吉他箱体模拟，16-20为贝斯箱体模拟）

档位	箱体名称	箱体规格
1	Based on EagleProV30s	4x12
2	Based on Sperimental	4x12
3	Based on JUICE4x12V30	4x12
4	Based on Mess Boogie	4x12
5	Based on FendChamp	1x8
6	Based on FendPrJunir	1x10
7	Based on Mar1960BV30	4x14
8	Based on DiezelV30	4x12
9	Based on Electrovoice	2x12
10	Based on MessDRectV30	4x12
11	Based on TwinJensen	1x12
12	Based on TwedDlx1X12	1x12
13	Based on FendShowman	4x12
14	Based on JC120Roland	2x12
15	Based on AC30Silvers	2x12
16	Based on BassAguila25	4x10
17	Based on BassJensen10	4x10
18	Based on BassStudio22	4x10
19	Based on BassAmpeg410	4x10
20	Based on BassEDEN300	4x10

**注：**以上所提及的厂商及产品名称仅用于描述TANK MINI的音色特点，无其他意图，商标名称归其公司所有。我们将不断更新音色，恕不另行通知，可能与实物有所差异，请以实物为准。

- Level: 箱体输出音量。
- Low cut: 调节低切频点，可选择20-300赫兹。如果您选择 300 赫兹，意味着 300 赫兹以下的低频都被抑制。
- High cut: 调节高切频点，可选择18000-5000赫兹。如果您选择 5k 赫兹，意味着 5000 赫兹以上的高频都被抑制。

输入	标准1/4" 单声道接口/TS
输出	标准1/4" 单声道接口/TS, 1/8"立体声输出
采样率	44.1KHz/24bit
尺寸	165(L)x60(W)x40(H)mm
重量	约325g
电源供给&USB数据传输	Type-C、5V≥300mA
电池额定容量	1500mah
电池型号规格	103048
电池标称电压	3.7V
续航	7 小时
充电电流限制	约400毫安
动态范围	105dB
总效果数量	60+ 个
效果槽/效果模块	可同时使用 6+1个, 可自定义效果顺序
预设数量	21个
USB音频 (OTG)	44.1K/24Bit, 内录 Loopback 可以独立开关
蓝牙伴奏	支持
音色编辑软件支持	WINDOWS,MAC,IOS,Android
第三方IR文件格式要求	44.1K/24Bit, 单声道 WAV 文件, 1024采样点
供电方式	内置蓄电池或USB 5V
AMP 音箱模拟	20种 (15 个电吉他音箱& 5 个贝斯音箱) 支持加载第三方AMP 音色
IR CAB 箱体模拟	20种 (15 个电吉他箱体& 5 个电贝斯箱体) 支持加载第三方 IR 文件
工作电流	约250mA
出厂附带	USB连接线X1
修订	2024-11-13

### ● 扫码下载APP:



扫描二维码下载

● **手机 APP 连接步骤:** 在操作前需确认手机和TANK MINI的BT功能都已经开启，然后打开 M-EFCS，点击左上角“☰”按键，点击“当前设备”选择 TANK MINI，再扫描附近设备，即可连接使用。

●我们将不断改进我们的产品并保留修改某些功能和规格(包括但不限于外观、包装设计、操作手册、配件、尺寸、规格参数、显示屏等)的权利,恕不另行通知。购买前请与当地经销商确认产品功能及规格。产品图片及颜色因拍照光线误差及屏幕设定可能与实物产品效果有所差异。请以实物为准。