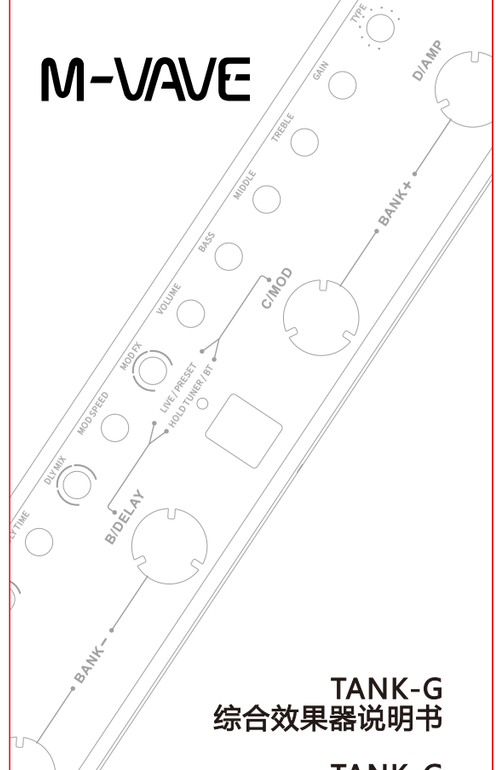
M-VAVE



TANK-G
综合效果器说明书

TANK-G
MULTI-EFFECTS PEDAL
USER MANUAL

TANK–G
多功能吉他效果器说明书

TANK-G是一款多功能吉他效果器，TANK-G预设有36个出厂音色，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。本产品内置重电池，解决了户外供电的问题。TANK-G具备降噪效果器、9种经典的箱头音色模拟、三段EQ调节器、三种调制效果、三种延时效果、三种混响、8种经典的R箱体模拟以及一个高精度的校音器，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/导出音色数据和导入IR文件和自定义每个预设的踩灯灯显示颜色，使用电脑软件还可对本机恢复出厂设置。另外TANK-G还带有手机内录功能，无线BT音乐播放功能，耳机监听功能，XLR平衡输出功能及电脑声卡功能，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，是您不错的吉他伴侣。

一. 注意事项

■ 电源供应:

本机设有内置电池供电，充满电后可持续使用12小时，可使用手机充电器或充电宝为本机进行供电。本机支持充电及用电同步进行。本机充电时长取决于充电变压器的输出功率，以输出功率为5.0V 2.0A的充电器为例，在本机内置电池耗尽的状态下进行充电，大概4小时可以充满。当电池电量不足时，本机显示屏上会显示“Lu”图案，5秒显示一次。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:

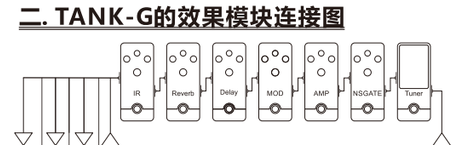
收音机、电视机等电磁波可能会对设备使用造成干扰，因此请尽量远离收音机和电视机等设备。

■ 效度损坏:

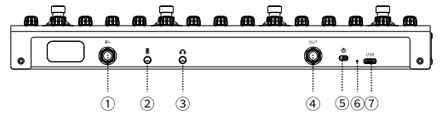
为防止变形、变色和其他方面等对产品造成损坏，请避免以下情况：

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

二. TANK-G的效果模块连接图

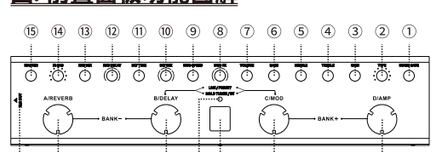


三. 后置面板功能图解



① **IN:** 连接吉他信号输入。
② **手机模口:** 用于手机内录。
③ **耳机输出:** 连接监听耳机。
④ **OUT:** 连接音箱或调音台。
⑤ **电源开关。**
⑥ **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，充满电时灯转为蓝灯常亮。
⑦**USB接口:** 供电、电脑声卡、电脑软件编辑预设音色及导入IR文件。

四. 前置面板功能图解



①**NOISE GATE:** 调节旋钮控制降噪门限，调至最左为关闭降噪效果。
②**TYPE:** 箱头音色选择旋钮。
③**GAIN:** 音色增益旋钮。
④**TREBLE:** 调整高频。
⑤**MIDDLE:** 调整中频。
⑥**BASS:** 调整低频。
⑦**VOLUME:** 箱头模块音量调节旋钮。
⑧**MOD FX:** 周边效果参数调节旋钮，包含三段进程，三种MOD，可三选一。
⑨**MOD SPEED:** 周边效果速度调节旋钮。
⑩**DLY MIX:** 延时效果干湿比调节旋钮，包含三段进程，三种DELAY，可三选一。
⑪**DLY TIME:** 延时效果时间速度调节旋钮。
⑫**RVB DECAY:** 混响的回声效果的持续时间调节旋钮，包含三段进程，三种REVERB，可三选一。

⑬**RVB MIX:** 混响效果干湿比调节旋钮。
⑭**IR CAB:** 箱体模拟选择旋钮。
⑮**MASTER:** 全局音量，在任何情况下都能用于控制最终输出音量，开机后此旋钮灯一般处于常亮状态，只在打开调音器时候会灭灯。
⑯**无线BT指示灯。**
⑰**显示屏:** 显示BANK预设组的编号，一共1-9组；在调音模式时，显示音名；在电量不足时显示“Lu”图案。
⑱**A功能踩灯:** 在PRESET模式可控制A预设开/关，在LIVE模式可控制REVERB模块开/关。
⑲**B功能踩灯:** 在PRESET模式可控制B预设开/关，在LIVE模式可控制DELAY模块开/关。
⑳**C功能踩灯:** 在PRESET模式可控制C预设开/关，在LIVE模式可控制MOD模块开/关。
㉑**D功能踩灯:** 在PRESET模式可控制D预设开/关，在LIVE模式可控制AMP模块开/关。
㉒**XLR平衡输出:** 可使用XLR接头的平衡线材连接到录音室设备、调音台或全频播放设备。

五. 效果模块功能介绍 (注意：请在LIVE模式下试听以下模块的音色)

1、NOISE GATE降噪模块

- **NOISE GATE旋钮:** 调节旋钮控制降噪门限，调至最左为关闭降噪效果。

2、AMP箱头模块

- **TYPE旋钮:** 音色选择钮，总共有9档位，每调节一档位即切换一种音色，请看列表。

旋钮档位	箱头名称	音色类型
1	Based on VOX AC30HW Normal	Clean
2	Based on Fender 65 Twin Reverb	Clean
3	Based on Bogner Shiva	Overdrive
4	Based on Marshall JTM45 OD	Overdrive
5	Based on Plexi 100	Overdrive
6	Based on Marshall JCM800	Dist
7	Based on EVH 5150 LEAD	Dist
8	Based on ENGL Powerball E645/2	Dist
9	Based on Mesa Boogie Dual Rectifier	Dist

注以上所提及的厂商及产品名称仅用于描述TANK-G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。

- **GAIN旋钮:** 调节音色的增益度。
- **TREBLE旋钮:** 调整高频。
- **MIDDLE旋钮:** 调整中频。
- **BASS旋钮:** 调整低频。
- **VOLUME旋钮:** 箱头模块音量调节旋钮。

3、MOD周边效果模块

- **MOD SPEED旋钮:** 周边效果速度调节旋钮。
- **MOD FX旋钮:** 周边效果参数调节旋钮，包含三段进程，三种MOD，可三选一，第一段进程为调节CHORUS合唱效果的中提混合比MIX参数，第二段进程为调节PHASER相移效果的效果深度DEPTH参数，第三段进程为调节TREMOLO颤音效果的MIX参数，将旋钮调至任意两段进程的中间时，可关闭效果，MOD模块的两个旋钮灯同时熄灭。

4、DELAY延时效果模块

- **DLY TIME旋钮:** 延时效果时间速度调节旋钮。
- **DLY MIX旋钮:** 延时效果干湿比调节旋钮，包含三段进程，三种DELAY，可三选一，第一段进程为ANALOG模拟延时，第二段进程为TAPE磁带延时，第三段进程为DUAL双延时，将旋钮调至任意两段进程的中间时，可关闭效果，DELAY模块的两个旋钮灯同时熄灭。

5、REVERB混响效果模块

- **RVB MIX旋钮:** 混响效果干湿比调节旋钮。
- **RVB DECAY旋钮:** 混响的回声效果的持续时间调节旋钮，包含三段进程，三种REVERB，可三选一，第一段进程为ROOM房间混响，第二段进程为SPRING弹簧混响，第三段进程为CLOUD云混响。将旋钮调至任意两段进程的中间时，可关闭效果，REVERB模块的两个旋钮灯同时熄灭。

6、IR CAB箱体模块

- **IR CAB旋钮:** 总共9档，第一档为关闭档位，其余的8个档位为不同规格的箱体，请看列表。TANK-G支持用户加载第三方IR，可使用官方电脑软件或者APP导入第三方IR箱体模拟文件，用户可针对列表的载入位置导入覆盖原厂的IR文件。

档位	箱体名称	箱体规格
0	关闭箱体模拟	无
1	Based on VHT Deliverance	4x12
2	Based on Sperimental	4x12
3	Based on Electrovoice	2x10
4	Based on Mesa Boogie	4x12
5	Based on Fender Champ	1x8
6	Based on Fender Pr Junior	1x10
7	Based on Marshall 1960V30	4x12
8	Based on Diezel V30	4x12

注以上所提及的厂商及产品名称仅用于描述TANK-G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。

7、TUNER功能

- 同时按住B+C踩钉保持2秒，进入调音模式，该模式下吉他输出为静音。在调音模式时，同时短按B+C踩钉，即可退出调音模式。
- 在调音琴弦时，显示屏上显示音名，对于带升/降号的音名，系统默认只用#（升号）来表示，#在显示屏上显示为右下角的一个圆点，例如“C#”在显示屏上显示方式为C。，上方所有的旋钮灯会提示音准，中间的绿灯持续亮起表示该的音高接近显示屏上音名的音高，左边的红灯亮起表示低于显示屏上音名的音高，右边的红灯亮起表示高于显示屏上音名的音高。

8、无线BT功能

- TANK-G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，长按B+C踩钉3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指示灯慢闪，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。

9、手机内录功能

- TANK-G支持手机内录功能，通过随机携带的内录专用线，将TANK-G与您的手机/平板进行连接，即可实现高品质录音。

六. PRESET/LIVE模式

TANK-G有两种操作模式，LIVE为编辑模式，PRESET为预设模式。开机初始默认进入PRESET模式，短按组合踩钉B+C进行LIVE与PRESET模式的切换。

A、PRESET模式功能介绍

在预设模式下，短按BANK-或者BANK+踩钉，屏幕上显示出目标的预设组正在闪烁，然后短按A/B/C/D踩钉的其中一个，即可切换到任何一个预设。

PRESET模式为最常规的演奏状态，本机共具备36个预设音色，可用四个踩钉切换音色。但是在PRESET模式下，不能使用硬件旋钮即时编辑音色参数，进入LIVE模式下才可使用硬件旋钮编辑音色参数，或者到电脑软件界面或者手机APP即可读取所有的音色参数并且进行自定义修改。

从显示屏上可看到，预设组一共为1-9组，每一组有A、B、C、D的4个预设。短按BANK-踩钉，可向上翻组；短按BANK+踩钉，可向上翻组。A/B/C/D踩灯表当前组下的4个预设音色，被选中的音色，对应的踩灯指示灯常亮。上方的旋钮灯会显示目前的预设所开启的效果模块，旋钮灯持续常亮的模块代表效果已开启，熄灭的即为关闭。若4个踩灯的预设音色都不开启的话，即目前处于直通状态，四个踩灯灯机上方所有的音色旋钮灯全都熄灭，只有MASTER旋钮常亮状态。

在预设模式下，可支持把当前的预设音色（比如2A）覆盖保存到36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8组），此时屏幕的数字“8”会持续闪烁以此来提示您即将要选择第8个BANK，然后长按A/B/C/D任意一个踩灯（比如8B），即可把刚才的2A预设音色进行复制粘贴到8B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”。

B、LIVE模式功能介绍

LIVE模式适用于微调和编辑预设音色。当踩下B+C踩钉切换至LIVE模式时，机器会一直保留切换前的音色参数，保留在指定的旋钮上，仅保留1次，一旦旋钮值被手动调整，之前保留的参数会被覆盖为当前旋钮值。因此，用户可以对任何一个旋钮上的音色参数进行调整，然后短按BANK+或者BANK-踩钉，选择您想要的BANK，再长按A/B/C/D任一踩钉进行覆盖保存，此时A/B/C/D踩钉灯会快速闪烁，以提示“保存成功”。

LIVE模式也适用于自定义音色链，进入LIVE模式后，先把所有的效果模块手动关闭，再手动开启您想要的模块，即可得到几组单块效果器的串联状态，旋钮的效果所见即所得，适用于随时需要手动调节音效参数的演奏场景。

LIVE模式下，旋钮灯可呈现3种状态：熄灭/常亮/闪亮。若旋钮灯熄灭状态即代表此旋钮的效果未开启；若旋钮灯闪亮状态即代表此旋钮开启，但是目前旋钮的音色数据跟实际值不符，把旋钮调节后，即会丢失此旋钮之前保留的数据，旋钮灯转为常亮状态，之前保留的参数会被覆盖为当前旋钮值的参数；常亮状态即代表目前旋钮的音色数据跟实际值相符。

LIVE模式下，踩钉灯有2种状态：熄灭/闪亮。若踩钉灯熄灭状态即代表此模块关闭；若踩钉灯闪亮状态即代表此模块已开启。

七. 技术参数

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、XLR接口平衡输出、内录接口输出
采样率	44.1KHz/24bit
尺寸	310(L)x65(W)x40(H)mm
重量	613g
电源供给&USB数据传输	Type-C，5V≥300mA
电池容量	3000mah
工作电流	200mA
出厂附件	说明书、USB连接线、内录连接线
修订	2024-1-3

八. 下载软件

- 官网：
  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

USER MANUAL
TANK–G

TANK-G is a portable and multifunctional guitar effector. It has 36 editable Presets, the users also can customize effectors chain and save. TANK-G has built-in battery, it has Noise Gate,9 Preamp,3-band EQ,3 Modulations,3 Delays,3 Reverbs,8 IR CAB slots and a Tuner. You can download the computer software or APP from our official channels, use it to edit presets, exchange presets, share presets, import/export presets, and customize the color that each preset footswitch-light displays, and you can import the IR files, restore the factory Settings of the machine on the computer. Beside,it support mobile phone recording jack, BT, earphone monitoring function, XLR balanced output jack, and computer sound card. It integrates a variety of function, it is easy-carry and it has excellent sound! It could be a good partner of your guitar.

Ⅰ. Attentions:

■ The power supply:

It is equipped with built-in battery for power supply, which can last for 12 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 hours to fully charge the battery. When the battery run low, the display screen will show the pattern “Lu”, it shows every five seconds. 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:

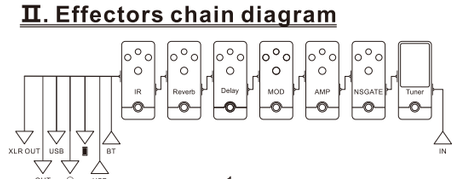
The electromagnetic wave of radio, television and other equipment may cause interference to the equipment, so please try to stay away from radio , television and other equipment.

■ The location:

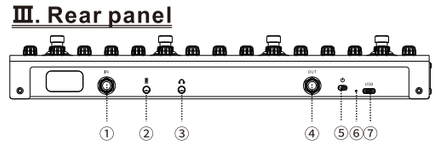
To avoid deformation, discoloration, or other serious damage, do not expose this unit to the following conditions:

a. Heat sources
b. Magnetic fields
c. Sunlight
d. High temperature or moist district
e. Excessively dusty or dirty locations
f . Strong vibrations or shocks

Ⅱ. Effectors chain diagram

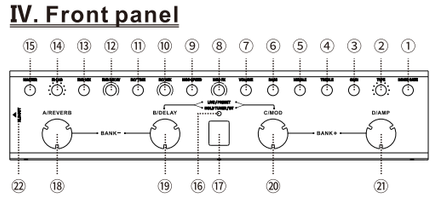


Ⅲ. Rear panel



① **IN:** 1/4”MONO audio input jack.
② **Audio output jack:** It support mobile phone recording.
③ **Earphone output.**
④ **OUT:** 1/4”MONO audio output jack.
⑤ **Power switch.**
⑥ **Charging indicator:** When the battery is normally using, the indicator will go off; During charging,the indicator will stay red, then it will turn to blue after fully charging.
⑦ **USB jack:** Use to charge the battery/the TANK-G can be sound card of computer/you can edit 36 groups of presets on computer/you can import the IR on computer.

Ⅳ. Front panel



① **NOISE GATE:** Adjust the threshold of NOISE GATE, move to the far left to close the NOISE GATE.
② **TYPE:** 9 Preamp selection slots.
③ **GAIN:** Adjust the gain of AMP.
④ **TREBLE:** Adjust the treble of AMP.
⑤ **MIDDLE:** Adjust the middle of AMP.
⑥ **BASS:** Adjust the bass of AMP.
⑦ **VOLUME:** Adjust the volume of AMP.
⑧ **MOD FX:** Adjust the effect parameters of Modulation, this knob contains three processes, you can use it to select one of 3 types MOD.
⑨ **MOD SPEED:** Adjust the speed of Modulation.
⑩ **DLY MIX:** Adjust the dry and wet ratio of Delay, this knob contains three processes, you can use it to select one of 3 types Delay.
⑪ **DLY TIME:** Adjust feedback speed of echo repeats of Delay.

⑫ **RVB DECAY:** Adjust the duration of Reverb Echo, this knob contains three processes, you can use it to select one of 3 types Reverb.
⑬ **RVB MIX:** Adjust the dry and wet ratio of Reverb.
⑭ **IR CAB:** Select the types of IR CAB.
⑮ **MASTER:** In any case, you can use it to control TANK-G’s final output volume. The MASTER light is usually lighting on after the power is turned on, it only turns off when you turn on the TUNER.
⑯ **BT indicator.**
⑰ **The display screen:** Display the number of the BANK, there are 1-9 groups; when in the TUNER mode, show the note name; when the battery run low, it show the pattern “Lu”.
⑱ **A footswitch:** Use it to turn on/off A-Preset when in PRESET mode, or use it to turn on/off REVERB Module when in LIVE mode.
⑲ **B footswitch:** Use it to turn on/off B-Preset when in PRESET mode, or use it to turn on/off DELAY Module when in LIVE mode.
⑳ **C footswitch:** Use it to turn on/off C-Preset when in PRESET mode, or use it to turn on/off MOD Module when in LIVE mode.
㉑ **D footswitch:** Use it to turn on/off D-Preset when in PRESET mode, or use it to turn on/off AMP Module when in LIVE mode.
㉒ Use balanced XLR cable to connect to your studio gear, mixer, PA, or FRFR speaker.

Ⅴ. Effectors module

Attention:Please make sure that TANK-G is in LIVE mode then you can listening-test the Effectors module below.

1. NOISE GATE module

- **NOISE GATE knob:** Adjust the threshold of NOISE GATE, move to the far left to close the NOISE GATE.

2. AMP module

- **TYPE knob:** Select the types of AMP, there are 9 different types, please look at the list.

SLOT	NAME	TYPE
1	Based on VOX AC30HW Normal	Clean
2	Based on Fender 65 Twin Reverb	Clean
3	Based on Bogner Shiva	Overdrive
4	Based on Marshall JTM45 OD	Overdrive
5	Based on Plexi 100	Overdrive
6	Based on Marshall JCM800	Dist
7	Based on EVH 5150 LEAD	Dist
8	Based on ENGL Powerball E645/2	Dist
9	Based on Mesa Boogie Dual Rectifier	Dist

Note: The brand and model names mentioned above are Trademarks of their respective owners, which are in no way associated with TANK-G. 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.

- **GAIN knob:** Adjust the gain of AMP.
- **TREBLE knob:** Adjust the treble of AMP.
- **MIDDLE knob:** Adjust the middle of AMP.
- **BASS knob:** Adjust the bass of AMP.
- **VOLUME knob:** Adjust the volume of AMP.

3. MOD module

- **MOD SPEED knob:** Adjust the speed of Modulation.
- **MOD FX knob:** Adjust the effect parameters of Modulation, this knob contains three processes, you can use it to select one of 3 types MOD. The first process is to adjust the MIX-parameter of CHORUS, the second process is to adjust the DEPTH-parameter of PHASER, the third process is to adjust the MIX-parameter of TREMOLO. When the knob is set to the middle of any two processes, the MOD module turned off, the two knob lights of the MOD module go off at the same time.

4. DELAY module

- **DLY TIME knob:** Adjust feedback speed of echo repeats of Delay.
- **DLY MIX knob:** Adjust the dry and wet ratio of Delay, this knob contains three processes, you can use it to select one of 3 types Delay. The first process is ANALOG delay, the second process is TAPE delay, the third process is DUAL delay. When the knob is set to the middle of any two processes, the DELAY module turned off, the two knob lights of the DELAY module go off at the same time.

5. REVERB module

- **RVB MIX knob:** Adjust the dry and wet ratio of Reverb.
- **RVB DECAY knob:** Adjust the duration of Reverb Echo, this knob contains three processes, you can use it to select one of 3 types Reverb. The first process is ROOM reverb, the second process is SPRING reverb, the third process is CLOUD reverb.When the knob is set to the middle of any two processes, the REVERB module turned off, the two knob lights of the REVERB module go off at the same time.

6. IR CAB module

- **IR CAB knob:** Select the types of IR CAB. A total of 9 slots, the first slot means the IR has been turned off, the other 8 slots are 8 types of IR CAB, please look at the list. You can import the IR files to TANK-G on computer software or APP, the previously IR will overwritten with the current IR.

SLOT	NAME	CAB TYPES
0	The IR CAB turn off	None
1	Based on VHT Deliverance	4x12
2	Based on Sperimental	4x12
3	Based on Electrovoice	2x10
4	Based on Mesa Boogie	4x12
5	Based on Fender Champ	1x8
6	Based on Fender Pr Junior	1x10
7	Based on Marshall 1960V30	4x12
8	Based on Diezel V30	4x12

Note: The brand and model names mentioned above are Trademarks of their respective owners, which are in no way associated with TANK-G. 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.

7. TUNER

- Hold the B+C footswitchs for 2 seconds to enter the TUNER mode. In this mode, the guitar output is muted. Then you can tap the B+C footswitchs to exit the TUNER mode.
- When tuning the string, the note name will be displayed on the screen, for note name with sharp/flat signs, the system defaults only to use # (sharp sign) to indicate, it appears on the display screen as a small dot in the bottom right corner, for example, “C#” is displayed on the screen as C。. All the knob lights above will show the pitch, when the middle green light keep lighting on, it indicate that the pitch of string is close to the note name on screen. When the left red lights keep lighting on, it indicate that the pitch of string is lower than the note name on screen. When the right red lights keep lighting on, it indicate that the pitch of string is higher than the note name on screen.

8. BT

- This product supports BT, you hold the B+C footswitchs for 3 seconds 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 turnning on, but not in connection; when the indicator lighting up, it means the BT has been connected.

9. Mobile phone recording

- This product supports phone recording function, you can use the recording cable to connect the Phone and TANK-G, then you can use your Phone to get a high quality recording.

Ⅵ. PRESET/LIVE mode

TANK-G has 2 operation modes, LIVE mode and PRESET mode. The initial power-on default enters PRESET mode, tap the combination footswitches B+C to toggle LIVE/PRESET mode back and forth.

A. Function Introduction of PRESET mode.

In PRESET mode, press BANK- or BANK+ at first, the screen shows the target’s BANK flashing, then tap A/B/C/D to switch to

any preset you want.

PRESET mode is the most normal playing state, TANK-G has a total of 36 presets, you can use 4 footswitches to select any one of them.But in PRESET mode, you can’t use the knob to adjust the tone parameters in real time , if you want to adjust the parameters, you should enter the LIVE mode at first, or you can use the computer software or APP to read and adjust the parameters of TANK-G.

As you can see from the display, there are 1-9 preset groups, which we call BANK, each BANK has four presets for A,B,C, and D. Tap BANK- footswitches to turn down the BANK, Tap BANK+ footswitches to turn up the BANK. A,B,C,D footswitches are the 4 presets of the current BANK, when a preset is selected, the corresponding footswitch-indicator keep lighting up. At this point, some of the top knob lights will light up, the continuously on knob light means that the effect is on, and the off knob light means that the effect is off. If none of the 4 presets of the current BANK are enabled, it means TANK-G is currently in BYPASS, all 4 footswitch-lights and all parameters-knob lights are off, with only the MASTER knob on.

In PRESTET mode, you can save the current preset (2A, for example) overwrite to any of the 36 presets. It’s very simple, under the current preset, tap BANK- or BANK+ to select your target group(eighth group, for example), now the number “8” on the screen will continue flashing, this will indicate that you are ready to select the eighth BANK. Then hold the A/B/C/D footswitch (B footswitch, for example), after this operation, you had copied and pasted the 2A preset to the 8B preset, the B-footswitch blinks quickly, indicating “Save successfully”.

B. Function Introduction of LIVE mode.

In LIVE mode you can fine-tune and edit one of the 36 presets, when you switch B+C footswitch to enter the LIVE mode, the machine will retain the data in the corresponding knobs before switching, the data is retained only once, and once the knob value is manually changed, the data is overwritten by the actual knob value. Therefore, you can adjust any parameters-knob of the current preset, then tap BANK- or BANK+ to select the BANK you want, finally you can hold the A/B/C/D to save the overlay, at this time, the A/B/C/D footswitch blinks quickly, indicating “Save successfully”.

In LIVE mode you can also customize a effectors chain, after you enter the LIVE mode, you should close all effector modules manually at first, then you turn on the module you want, at this time you get a effectors chain, visual operations can be performed, the timbre of parameters-knob is what you see is what you get, you can use the knobs to improvise the timbre when you performing.

In LIVE mode, the knob lights have only 3 states: lighting on/went off/flashing. If the knob light is off, it means that the effect of this knob is not on; If the knob is lighting on, it means that the effect has been turned on and the knob timbre effect is what you see is what you get; If the knob light flashing, it means that the effect has been turned on, but the knob timbre what you get is different from what you see, and once the knob value is manually changed, the data is overwritten by the actual knob value, the knob light become lighting on.

In LIVE mode, the footswitch lights have only 2 states: went off/flashing. If the footswitch light is off, it means that the effecor module of this footswitch is not on; If the footswitch light is flashing, it means that the effecor module of this footswitch is on.

Ⅶ. Technical parameters

Input	Standard 1/4” jack MONO/TS
Output	Standard 1/4” jack MONO/TS, 1/8” Stereo jack, XLR balanced jack, Phone recording jack
Sample rate	44.1KHz/24bit
Size	310(L)X65(W)X40(H)mm
Weight	613g
Power supply& USB data transmit	Type-C, 5V≥300mA
Battery capacity	3000mah
Current draw	200mA
Attachment	User manual, USB cable, recording cable

Ⅷ. Download Software

- **Website :**
  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

Ⅸ. FCC Warning Statement

★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.