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## M-VAVE TANK MINI

# M-VAVE Tank Mini Multic Effect Guitar/Bass Pedal User Manual

Model: TANK MINI

## INTRODUCTION

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The M-VAVE Tank Mini is a compact and versatile multi-effects processor designed for both guitar and bass. It integrates a wide range of effects, amplifier simulations, and cabinet simulations, offering extensive sound shaping capabilities. Key features include third-party IR support, OTG recording, a built-in tuner, and wireless Bluetooth music functionality. With its portable design and long battery life, the Tank Mini is suitable for practice, recording, and live performance.

## SETUP

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### Powering the Device

The M-VAVE Tank Mini can be powered via its USB Type-C port (5V) or its internal battery. The internal battery provides approximately 7 hours of continuous use. To charge the device, connect a standard USB 5V power adapter to the Type-C port. The charging current limit is about 400 mA.



Image: The M-VAE Tank Mini pedal with a USB Type-C cable connected, illustrating the power and data connection.

### Connecting Your Instrument and Amplifier

- Connect your guitar or bass to the **IN** (Standard 1/4" jack MONO/TS) port on the Tank Mini.
- Connect the **OUT** (Standard 1/4" jack MONO/TS) port of the Tank Mini to your amplifier, mixer, or audio interface.
- For silent practice or monitoring, connect headphones to the 1/8" Stereo Headphone Monitoring Interface.



Image: Top and front views of the M-VAE Tank Mini, highlighting the input, output, USB, and headphone jacks for various connections.

## Software Installation

The M-VAVE Tank Mini supports mobile and computer software for deeper editing and management of effects. Visit the official M-VAVE website to download the latest software compatible with WINDOWS, MAC, iOS, and Android operating systems. This software allows for importing third-party IRs, managing presets, and customizing effect chains.

## OPERATING INSTRUCTIONS

### Basic Controls

The Tank Mini features three footswitches (A, B, C) for navigating presets and engaging effects, along with a volume knob. The footswitches often have LED rings indicating their status.



Image: Top view of the M-VAVE Tank Mini, showing the three footswitches with illuminated rings, indicating active status.



Image: The M-VAVE Tank Mini with green circles highlighting the three footswitches, indicating their primary control points.

### Effect Modules and Chains

The Tank Mini allows for the simultaneous use of 6+1 effects. The effect modules (FX, AMP, MOD, DLY, REV, CAB) can be freely

moved and arranged within the M-EFCS software to create custom effect chains. The FX module offers Noise Gate, NG+Boost, or NG+Compress combinations.

# 6 INDEPENDENTLY MOVABLE EFFECT MODULES

FX, AMP, MOD, CAB, DELAY, REVERB

You can freely move the effect modules on the M-EFCS software, and the entire effect chain can be flexibly moved, which means that your ideas for creating sounds are not limited, just like you use single blocks and speakers.

Tips: The FX module can realize Noise Gate or NG+Boost or NG+Compress, three combinations, and can use 6+1 effects at the same time:

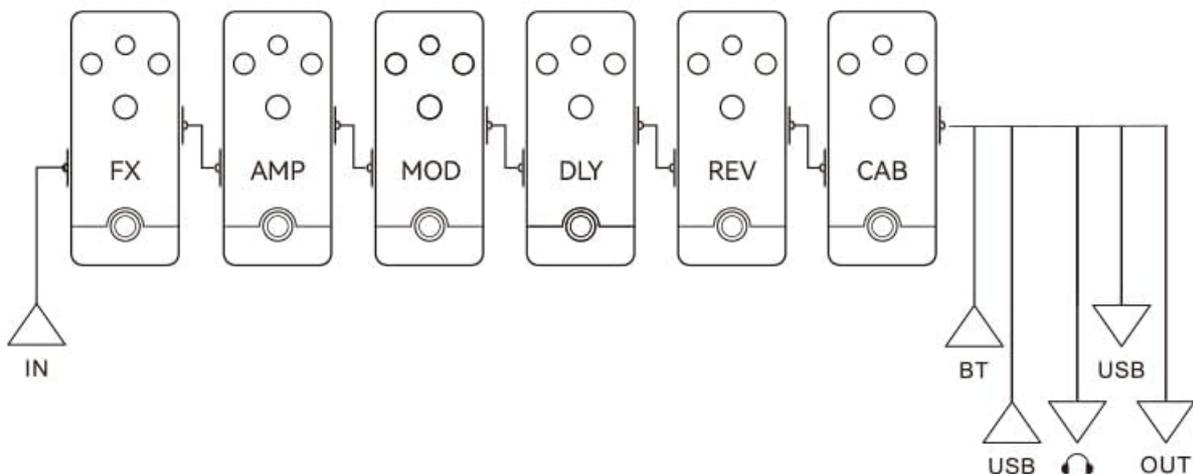


Image: A diagram illustrating the six independently movable effect modules (FX, AMP, MOD, DLY, REV, CAB) and their signal flow, emphasizing customization.

The pedal features over 60 effects in total, categorized as follows:

- **FX Module:** Noise Gate, NG+Boost, NG+Compress
- **AMP Module:** 1-15 for Guitar Amp Simulation, 16-20 for Bass Amp Simulation
- **MOD Module:** Chorus, Phaser, Tremolo, Flanger, Vibrato, Univibe, Autofilter
- **DLY Module:** Analog, Ducking, dTape, Dual, Lofi
- **REV Module:** Room, Hall, SWELL, Spring, Shimmer, Cloud
- **CAB Module:** 1-15 for Electric Guitar Cabinet Simulation, 16-20 for Bass Cabinet Simulation

## TOTAL NUMBER OF EFFECTS > 60+

FX Module	Noise Gate, NG+Boost, NG+Compress
AMP Module	1-15 are guitar speaker simulations, 16-20 are bass speaker simulations
MOD Module	Chorus, Phaser, Tremolo, Flanger, Vibrato, Univibe, Autofilter
DLY Module	Analog, Ducking, dTape, Dual, Lofi
REV Module	Room, Hall, SWELL, Spring, Shimmer, Cloud
CAB Module	1-15 are electric guitar cabinet simulations, 16-20 are bass cabinet simulations

## A VARIETY OF CLASSIC SPEAKER SIMULATIONS

Uncompromising sound expression





Image: A chart providing a detailed breakdown of the over 60 effects available, categorized by their respective modules (FX, AMP, MOD, DLY, REV, CAB). The image also shows the M-VAVE Tank Mini pedal resting on a guitar, visually representing the application of classic speaker simulations.

### **Presets and Tuner**

The Tank Mini comes with 21 factory presets. These can be recalled and customized. The built-in tuner function assists in accurate instrument tuning.

### **OTG Recording and Bluetooth Music**

The pedal supports Mobile Phone OTG Recording Function, allowing direct recording to compatible mobile devices. It also features Wireless BT Music Function, enabling audio playback through the pedal for practice or jamming.

### **ANN Audio Modeling Algorithm**

The Tank Mini utilizes ANN (Audio Neural Network) Audio Modeling Technology. This technology allows the pedal to learn and accurately reproduce the sound characteristics of various amps, single pedals, or cabinets, achieving high-fidelity timbre sharing. This enables the Tank series to restore sound details of different devices.

# **ANN DIGITAL REPRODUCTION TECHNOLOGY IS NOW AVAILABLE!**

Redefine audio reproduction standards  
and open up extraordinary listening experience

## **AUDIO NEURAL NETWORK MODELING TECHNOLOGY**

Analog technology restores the texture of the speaker sound, with sufficient dynamics. The degree of imitation can reach 95 to 99%

## **ANN SOFTWARE**

Through ANN digital audio neural network modeling technology (Audio Neural Network, ANN), it is possible to learn and accurately reproduce the sound characteristics of various amps, single pedals or cabinets to achieve timbre sharing: ANN function's understanding of sound is closer to the real perception of human sound, which enables the TANK

series to restore the sound details of different devices to the maximum extent.



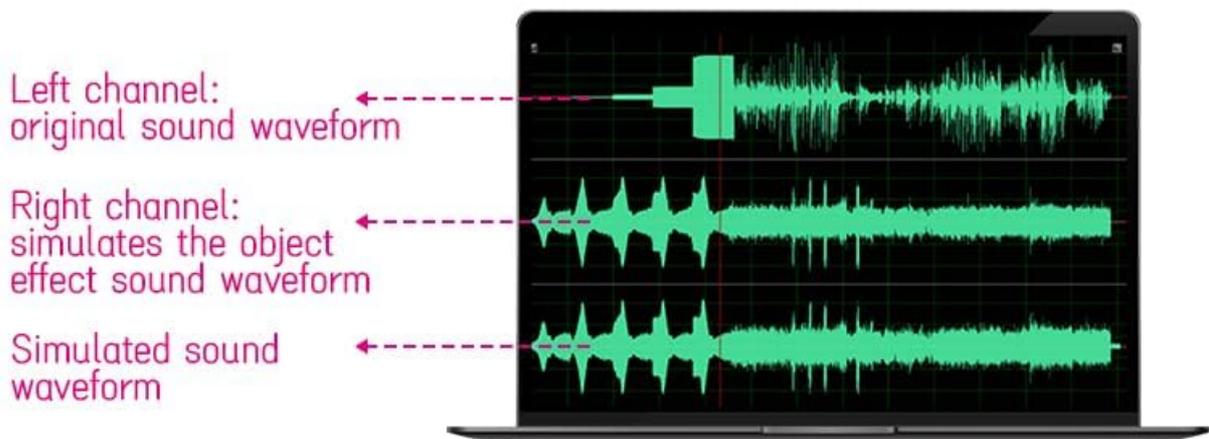
Image: A diagram illustrating the ANN Digital Reproduction Technology, showcasing its software interface for audio modeling and reproduction.

### How to Achieve Sound Cloning:

1. Connect a classic monoblock (or similar device) to the sound card. The left channel is the original sound, and the right channel is connected to the classic monoblock. Generate audio through the host recording software.
2. Use the official ANN software to model, learn, replicate, and imitate this audio, generating an AM2 format file.
3. AM2 files can be loaded and imported into Tank series products for use.

# HOW TO ACHIEVE SOUND CLONING?

1. Take a classic monoblock as an example, connect it to the sound card, the left channel is the original sound, and the right channel is connected to the classic monoblock. Generate audio through the host recording software.
2. Use the official ANN software to model, learn, replicate and imitate this audio, and finally generate an AM2 format file.
3. AM2 files can be loaded and imported into TANK series products for use.



Simulating the sound texture of real speakers, you can get flexible bass dynamic sound, sweet and transparent clean sound, tube-flavored overload distortion sound, and tearing electric guitar harmonics, making it easy to master various music styles!

Image: A diagram illustrating the sound cloning process, showing original, simulated, and combined sound waveforms for comparison.

## MAINTENANCE

### Cleaning

To clean the M-VAVE Tank Mini, use a soft, dry cloth. Do not use abrasive cleaners, waxes, or solvents, as these can damage the finish and internal components. Ensure the device is powered off and disconnected from all cables before cleaning.

### Battery Care

The internal battery is designed for long life. To maximize battery lifespan, avoid fully discharging the battery frequently. Recharge the device when the battery indicator shows low power. Store the device in a cool, dry place if not used for extended periods, ensuring the battery has some charge (e.g., 50%).

### Software Updates

Periodically check the official M-VAVE website for software and firmware updates. Keeping your device updated ensures optimal

performance, new features, and bug fixes.

## TROUBLESHOOTING

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### No Sound Output

- Ensure all cables (instrument, output to amp/mixer) are securely connected.
- Check the volume knob on the Tank Mini and your amplifier/mixer.
- Verify that the correct input/output settings are selected on your connected devices.
- If using headphones, ensure they are fully plugged into the 1/8" jack.

### Device Not Powering On

- Confirm the USB power source is active and providing 5V.
- If using battery power, ensure the battery is charged. Connect the USB cable to charge the device.

### Software Connectivity Issues

- Ensure the USB cable is connected for data transfer.
- Check if the correct drivers are installed on your computer (if applicable).
- Restart both the Tank Mini and your computer/mobile device.
- Verify that the software is the latest version.

## SPECIFICATIONS

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# TECHNICAL SPECIFICATIONS

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:	1450mAh
Battery Model/Type:	102840
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

Image: A detailed chart outlining the technical specifications of the M-VAVE Tank Mini, including input/output, sample rate, size, weight, and power details.

Feature	Detail
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	1450mAh
Battery Model/Type	102840
Battery Nominal Voltage	3.7V
Battery life	7 hours
Charging current limit	About 400 mA
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Attachment	USB cabledx1

## WARRANTY AND SUPPORT

### Warranty Information

M-VAVE products are typically covered by a limited manufacturer's warranty. Please refer to the warranty card included with your product or visit the official M-VAVE website for detailed warranty terms and conditions specific to the Tank Mini pedal. Keep your

proof of purchase for warranty claims.

## Customer Support

For technical assistance, troubleshooting, or service inquiries, please contact M-VAVE customer support through their official website. You may find FAQs, software downloads, and contact forms available online.

