M-VAVE TANK B (DP34)

M-VAVE TANK-B Multi-Effects Processor

User Manual

1. Introduction

The M-VAVE TANK-B is a compact and versatile multi-effects processor designed for bass guitarists. It integrates a wide array of effects, amp simulations, and IR cabinet simulations, providing extensive tonal possibilities for practice, recording, and live performance. With its built-in rechargeable battery and Bluetooth connectivity, the TANK-B offers portability and convenience.

2. Key Features

- **Versatile Effects:** Features 36 editable presets including Noise Gate, 9 classic amp simulations, 3 modulation effects (chorus, phaser, tremolo), 3 delay effects (analog, tape, clean), and 3 reverb effects (room, spring, cloud).
- **IR Cabinet Simulations:** Includes 8 IR cabinet simulations and supports loading up to 8 third-party IRs via USB.
- **High-Precision Tuner:** Integrated tuner for accurate instrument tuning.
- **Easy Editing & Sharing:** Supports tone data editing, exchanging, sharing, importing, and exporting via Mac/Windows software or mobile app.
- **Connectivity:** Equipped with a 3.5mm headphone output for monitoring and mobile phone recording. Supports Bluetooth music playback for accompaniment.
- **Rechargeable Battery:** Built-in battery provides up to 12 hours of continuous operation on a 4-hour charge, supporting simultaneous charging and use.
- **Compact & Portable:** Lightweight design suitable for various occasions.

3. Controls and Connections

Familiarize yourself with the layout of the TANK-B multi-effects processor:



Figure 3.1: Top view of the M-VAVE TANK-B pedal, illustrating the arrangement of control knobs, footswitches, and the central display. Key controls include MASTER, IR CAB, SPACE TIME, SPACE MIX, MOD FX1, MOD FX2, VOLUME, BASS, MIDDLE, TREBLE, GAIN, TYPE, SUSTAIN, ATTACK, and NOISEGATE knobs. Four footswitches are labeled A/SPACE, B/MOD, C/AMP, and D/COMP, with BANK- and BANK+ indicators.



Figure 3.2: Angled perspective of the TANK-B pedal, showcasing its compact form factor and the side panel where input/output jacks and the USB port are located.



Figure 3.3: Front and rear views of the TANK-B pedal. The front panel includes the 1/4" instrument input, 3.5mm headphone output, and a USB-C port. The rear panel features the 1/4" instrument output and an XLR output for direct connection to mixing consoles or audio interfaces.



Figure 3.4: Bottom view of the TANK-B pedal, displaying the product label which includes the model name "TANK-B Combined Effects Pedal", regulatory marks (FCC, CE, UKCA, RoHS), power requirements (USB 5V 300mA), and a warning regarding warranty voidance upon removal of screws or the serial number label.

3.1. Top Panel Controls

- **Knobs:** MASTER, IR CAB, SPACE TIME, SPACE MIX, MOD FX1, MOD FX2, VOLUME, BASS, MIDDLE, TREBLE, GAIN, TYPE, SUSTAIN, ATTACK, NOISEGATE. These control various parameters of the effects and amplifier simulations.
- **Footswitches (A/SPACE, B/MOD, C/AMP, D/COMP):** Activate/deactivate individual effect blocks or switch between presets.
- **BANK-/BANK+ Indicators:** Show current bank selection.
- **Display:** Numeric display indicating the current preset number.
- **LIVE/PRESET / HOLD TUNER / BT Indicator:**Indicates mode (Live/Preset) and functions as a tuner or Bluetooth indicator when held.

3.2. Side Panel Connections

- **IN (1/4" Jack):** Instrument input.
- **OUT (1/4" Jack):** Main audio output to an amplifier or audio interface.
- **XLR OUT:** Balanced XLR output for direct connection to a mixer or PA system.
- **Headphone (3.5mm Jack):** Stereo headphone output for silent practice and monitoring.
- **USB-C Port:** For charging, connecting to computer software, and IR loading.

4. Setup

1. **Initial Charging:** Before first use, fully charge the TANK-B using the provided USB cable connected to a mobile phone adapter or power bank. A full charge takes approximately 4 hours.
2. **Power On:** Press and hold the power button (usually one of the footswitches or a dedicated button, refer to specific product diagram if available) to turn on the unit.
3. **Connect Instrument:** Plug your bass guitar into the "IN" jack.
4. **Connect Output:** Connect the "OUT" jack to your amplifier, or use the "XLR OUT" for direct connection to a mixer. For silent practice, connect headphones to the 3.5mm headphone jack.
5. **Software/App Installation (Optional):** For advanced editing and IR loading, download and install the M-VAVE software for Mac/Windows or the mobile app from the official M-VAVE website or app store.

5. Operating Instructions

5.1. Power On/Off

To power on, press and hold the designated footswitch (e.g., the B/MOD footswitch) until the display illuminates. To power off, press and hold the same footswitch until the display turns off.

5.2. Navigating Presets

The TANK-B features 36 editable presets organized into banks. Use the BANK- and BANK+ footswitches (often associated with A/SPACE and C/AMP) to cycle through different banks of presets. The numeric display will show the current preset number.

5.3. Activating/Bypassing Effects

Each of the four footswitches (A/SPACE, B/MOD, C/AMP, D/COMP) typically corresponds to an effect block. Press a footswitch to toggle its associated effect block on or off within the current preset.

5.4. Using the Tuner

To activate the high-precision tuner, press and hold the B/MOD footswitch (or the designated TUNER footswitch) for a

few seconds. The display will change to indicate tuning mode. Play a single note on your bass, and the display will guide you to tune accurately. Press the footswitch again to exit tuner mode.

5.5. Bluetooth Connectivity

The TANK-B supports Bluetooth music playback for accompaniment. To connect, activate Bluetooth on your mobile device and search for "M-VAVE TANK-B". Pair with the device. You can now play backing tracks through the TANK-B's headphone or main outputs.

5.6. Recording Function

Connect your mobile phone to the TANK-B's 3.5mm headphone output using a suitable cable (often included). This allows you to record your bass signal directly to your mobile device using a recording app.

6. Effects and Presets

The TANK-B offers a comprehensive suite of effects and 36 editable presets. Each preset can be customized by adjusting the various control knobs for each effect block (Noise Gate, Amp Sims, Modulation, Delay, Reverb, IR Cab Sims).

6.1. Editing and Saving Presets

While basic adjustments can be made directly on the unit, for in-depth editing and saving of custom tones, it is recommended to use the dedicated M-VAVE software (for Mac/Windows) or mobile app. Connect the TANK-B via USB to your computer or wirelessly via Bluetooth to your mobile device to access the full editing interface. This allows for precise parameter adjustments, effect chain reordering, and saving your personalized sounds.

6.2. IR Loading

The TANK-B supports loading up to 8 third-party Impulse Responses (IRs). Use the M-VAVE software to import your custom IR files via the USB connection. This feature allows you to expand your cabinet simulation options beyond the built-in IRs.

7. Battery and Charging

The TANK-B is equipped with a built-in rechargeable battery, providing excellent portability.

- **Charging Time:** Approximately 4 hours for a full charge.
- **Operation Time:** Up to 12 hours of continuous use on a full charge.
- **Charging Method:** Use a standard USB-C cable connected to a 5V USB power adapter (e.g., mobile phone charger) or a power bank.
- **Simultaneous Use:** The unit can be used while charging.

8. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners, waxes, or solvents.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the unit or subjecting it to strong impacts.
- **Warranty:** Removal of screws or the serial number label will void the product warranty.

9. Troubleshooting

- **No Power:** Ensure the unit is fully charged. Connect to a power source via USB-C. Check the USB cable and adapter.
- **No Sound Output:** Check all cable connections (instrument, amplifier, headphones). Ensure the volume knob on the TANK-B is turned up. Verify that effects are not bypassed and the master volume on your amplifier is set correctly.

- **Bluetooth Connection Issues:** Ensure Bluetooth is enabled on your mobile device and the TANK-B is in pairing mode (if applicable). Try restarting both devices.
- **Software/App Not Connecting:** Ensure the TANK-B is powered on and connected via USB (for computer) or Bluetooth (for mobile app). Update the software/app to the latest version.
- **Unwanted Noise/Hum:** Check for proper grounding of all audio equipment. Try a different power outlet. Ensure all cables are in good condition.

10. Specifications

- **Model Number:** DP34
- **Brand:** M-VAVE
- **Hardware Interface:** Bluetooth, USB
- **Audio Output Effects:** Modulation, Distortion, Delay, Reverb, Noise Gate, Amp Simulation, IR Cabinet Simulation
- **Presets:** 36 editable presets
- **IR Slots:** 8 user-loadable IRs
- **Battery Life:** Up to 12 hours (continuous operation)
- **Charging Time:** Approximately 4 hours
- **Power Input:** USB 5V 300mA
- **Manufacturer:** M-VAVE

11. Warranty and Support

The M-VAVE TANK-B comes with a manufacturer's warranty. Please refer to the product packaging or the official M-VAVE website for specific warranty terms and conditions. As noted on the product label, removal of screws or the serial number label will void the warranty.

For technical support, troubleshooting beyond this manual, or warranty claims, please contact M-VAVE customer service through their official website or authorized distributors.

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