**M-VAVE FBA_M008_MK300_White**

# M-VAVE MK-300 Guitar Bass AMP Modeler & Effects Processor

User Manual - Model: FBA_M008_MK300_White

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## 1. Overview

The M-VAVE MK-300 is a versatile Guitar Bass AMP Modeler & Effects Processor designed for musicians seeking extensive tonal customization and connectivity. This device integrates over 320 effects, 120 amp models, and 100 cab models, offering a wide range of sound possibilities for live performances, recording, and practice.
Key features include 160 presets, a 150-second looper, and 128 drum patterns, providing comprehensive tools for creative expression. Its intuitive workflow is supported by a vibrant 3.5" LCD screen and 4 programmable footswitches, allowing for on-the-fly adjustments and personalized setups. The MK-300 also boasts professional connectivity options such as XLR/1/4" outputs, USB-C for Re-Amp processing and DAW integration, and Bluetooth for wireless MIDI control or backing tracks. With a 10-hour battery life and lightweight aluminum body, it is built for portability and durability.




Figure 1.1: Front view of the M-VAVE MK-300 Guitar Bass AMP Modeler & Effects Processor, showcasing its display, knobs, and footswitches.

## 2. Setup

### 2.1 Physical Connections

Before operating the MK-300, ensure all necessary physical connections are made. The device features a variety of input and output options for different setups:

- **Input:** 1/4" mono audio input jack for your instrument.
- **PEDAL 2:** 1/4" stereo audio input jack for an external expression pedal.
- **MIDI input interface:** 5 PIN MIDI port, MIDI IN.
- **XLR OUT:** XLR stereo audio output for balanced signal. Connect to L for mono setup.
- **GND/LIFT:** Ground and lift switch for XLR output.
- **Phone recording jack:** For direct recording to mobile devices.
- **PHONES:** 1/8" stereo earphone output jack for monitoring.
- **OUTPUT:** 1/4" stereo audio output jack for unbalanced signal. Connect to L (MONO) for mono audio setup.
- **USB jack:** USB-C port for Re-Amp processing, DAW integration, and firmware updates.
- **Charging indicator:** LED to show charging status.
- **Power Switch:** Toggle on/off the unit.

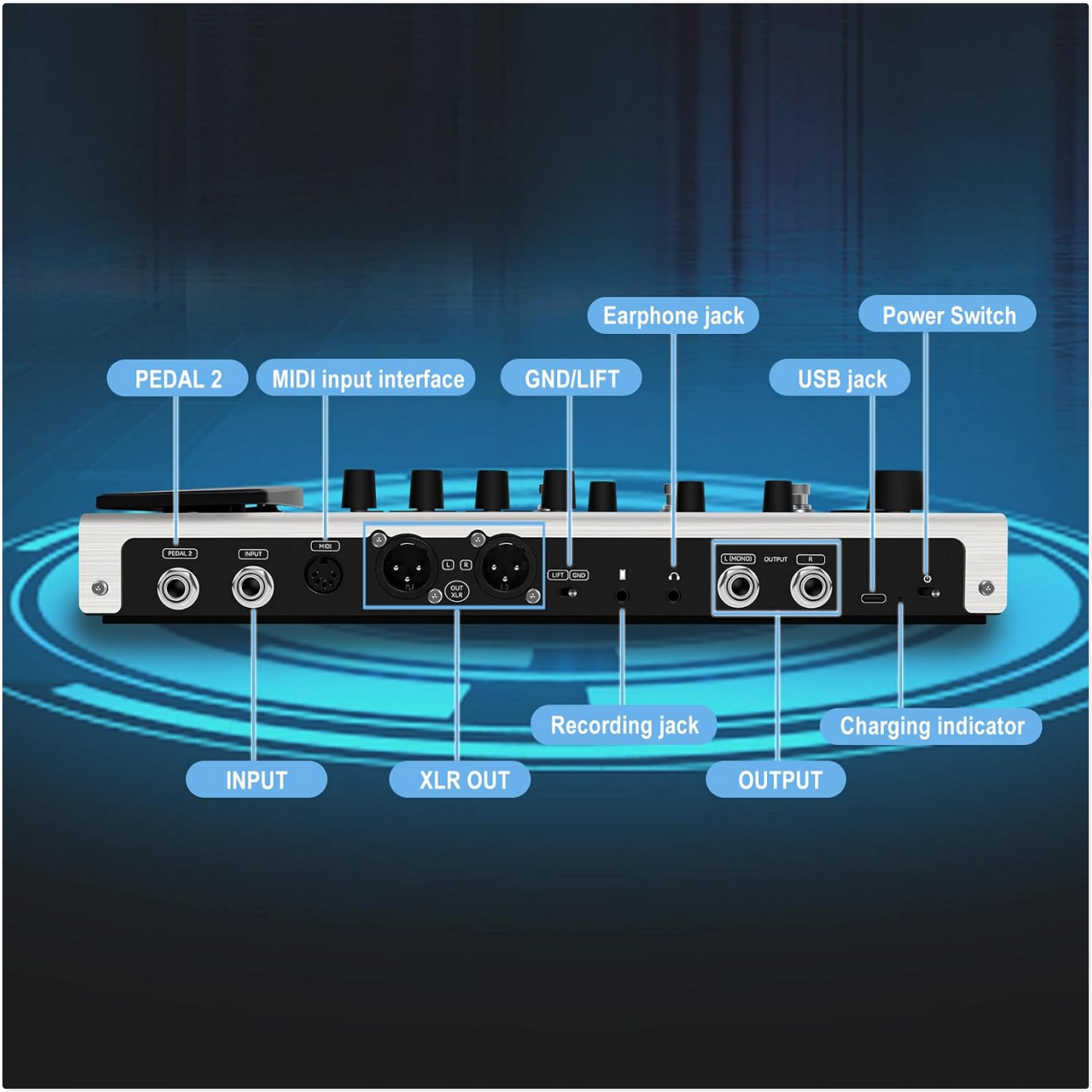



Figure 2.1: Rear panel of the M-VAVE MK-300, detailing all input and output ports for various connectivity needs.

## 2.2 Power and Battery

The MK-300 is equipped with a 5000mAh Lithium Polymer battery, providing over 10 hours of continuous use. It can also be powered via USB-C. Ensure the device is adequately charged before use, especially for extended sessions or live performances.




Figure 2.2: The MK-300 features a 5000mAh battery, offering over 10 hours of usage for extended sessions.

## 3. Operating the MK-300

The MK-300 offers a comprehensive set of controls and features for shaping your sound. Familiarize yourself with the layout and functions to maximize your creative potential.




Figure 3.1: Overview of the MK-300's extensive features, including 320+ effects, 120 amp models, 100 cab models, 128 drum machines, 150s looper, and 160 presets.

## 3.1 General Controls

- **PARA knob:** Rotate or press to navigate and select from options.
- **SAVE illuminated Button:** Used to save presets and settings.
- **3.5" chromatic LCD screen:** Displays states and detailed information.
- **MASTER:** Controls the overall output volume.
- **KNOB1/2/3:** Custom knobs. In factory condition, KNOB1 adjusts AMP module LEVEL, KNOB2 adjusts GAIN, and KNOB3 adjusts MIDDLE.
- **Expression pedal 1:** For real-time control of various parameters.
- **HOME illuminated Button:** Returns to the main screen.
- **DRUM illuminated Button:** Activates the drum machine.
- **GLOB illuminated Button/BT switch Button:** Accesses global settings and acts as a Bluetooth switch.
- **FS1/FS2:** Preset UP/DOWN illuminated customized footswitches.
- **DIAL1/2/3:** Three parameter dials for the Follow Screen function.

- **CTRL A/B illuminated customized footswitch:** Control A/B functions.
- **CTRL illuminated Button:** The switch-button of VOL module in effects chain (The 11th module).
- **10 effects modules illuminated Button:** Buttons for direct access to effect modules.




Figure 3.2: The MK-300 allows customization of effect chains, footswitches, knobs, and pedals to suit individual preferences.

## 3.2 Global Settings and Firmware Update

The MK-300's global settings allow for comprehensive configuration of the device's behavior, including pedal calibration, audio routing, and MIDI settings. Firmware updates ensure your device has the latest features and performance improvements.

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Video 3.1: A detailed tutorial on adjusting global settings and performing firmware updates for the M-VAVE MK-300. This video covers pedal calibration, various audio output modes (Nor, Dry, NoCAB, USB Audio), Bluetooth functionality, EQ settings, MIDI configuration, and the firmware upgrade process.

### 3.2.1 Pedal Calibration

To ensure accurate response from the expression pedal, calibration is essential. Follow the on-screen prompts after

entering the GLOB menu and selecting "Pedal1" or "Pedal2". Press the pedal firmly in the direction of your toes and confirm by pressing the PARA knob. A success icon will confirm calibration.

### 3.2.2 Other Function Introduction (Audio Output Modes)

- **Nor Gear Function:** The content of the left and right channels output is the same (stereo output).
- **Dry Gear Function:** The left channel is dry (unprocessed) and the right channel is wet (processed), allowing for simultaneous monitoring of both signals.
- **NoCAB Gear Function:** The left channel has CAB effects, and the right channel has no CAB effects, useful for specific recording or live setups.
- **USB Audio:** Adjusts the input volume of Bluetooth and the output volume of USB. The "Nor" gear records accompaniment and instrument sounds when recording USB audio. The "No" gear is for Loopback function, where accompaniment cannot be recorded.

### 3.2.3 Bluetooth (BT) Functionality

The BT function can be toggled on or off from the GLOB menu, or by long-pressing the GLOB button. The button lights indicate the switch status. Bluetooth allows for wireless MIDI control and streaming backing tracks.

### 3.2.4 Global Equalization (EQ)

The EQ menu allows setting the global equalization function of the MK-300, which changes the overall effect tone. You can turn global EQ on or off. It provides 4 global frequency band adjustment points:

- **Low Cut:** Select the low frequency cut range (20-200).
- **High Cut:** Select the high frequency cut range (4.0 k-20.0 k).

**Note: Please adjust the global equalization parameters carefully to protect your equipment and hearing. Global equalization will not affect the USB audio output of MK-300.**
When one of your presets uses a lot of effects or uses some effects that consume more system resources (such as reverb), turning on the global equalizer may cause system overload.

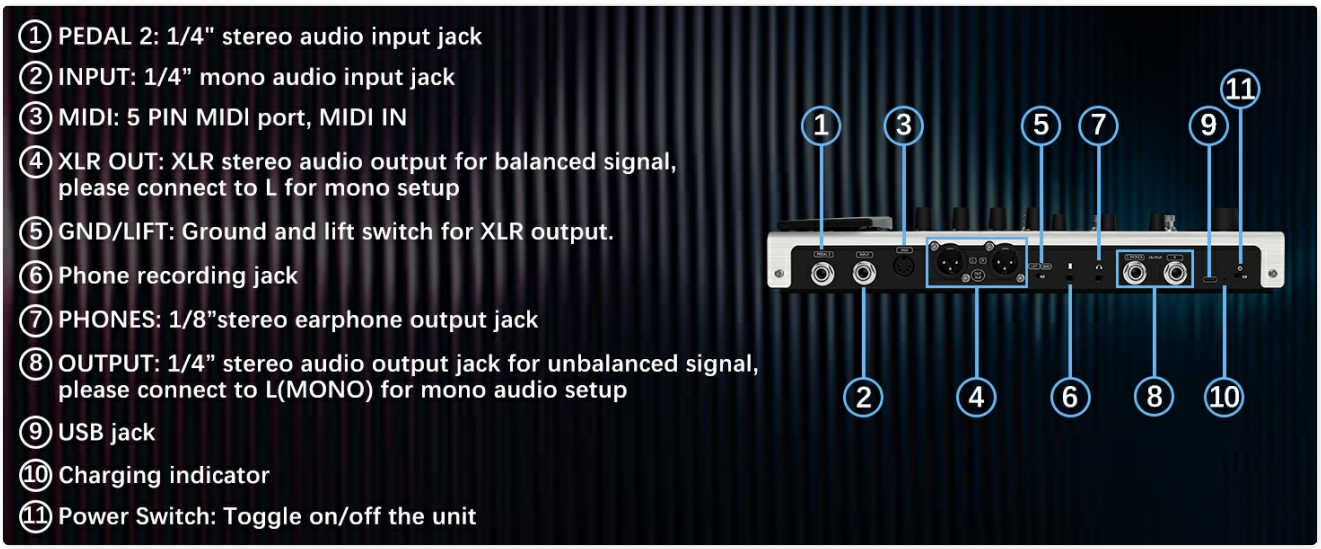



Figure 3.3: Global EQ settings allow users to quickly adjust the tone for different audio setups, suitable for stage performance, recording, and daily practice.

### 3.2.5 MIDI Settings

The MIDI menu allows configuration of CC (Control Change) code and PC (Program Change) code for external MIDI control and integration with other devices.

### 3.2.6 Firmware Upgrades

To upgrade the firmware, visit the official M-VAVE website to download the M-UPGRADE and M-EFCS software,

along with the latest update file. Follow the on-screen instructions in the M-UPGRADE software to select and apply the firmware. After the update, open M-EFCS and connect the device. It is recommended to perform a factory reset within M-EFCS after a firmware update to ensure proper functionality. The device may take up to 3 minutes to boot up after the first update. If a problem occurs, a repair process will be triggered automatically.




Figure 3.4: The firmware update process, showing the M-UPGRADE software interface and the steps to load and apply new firmware. Previous firmware versions must perform a factory reset to work properly after an update.

# 4. Maintenance

## 4.1 General Care and Cleaning

To ensure the longevity and optimal performance of your M-VAVE MK-300, follow these general care and cleaning guidelines:

- Keep the device clean by wiping it with a soft, dry cloth. Avoid using abrasive cleaners, waxes, or solvents.
- Protect the device from extreme temperatures, humidity, and direct sunlight.
- Avoid dropping or subjecting the device to strong impacts, as this can damage internal components.
- Ensure all cables are properly connected and not under strain to prevent damage to ports.

## 4.2 Storage Recommendations

When not in use, store the MK-300 in a safe, dry place. The lightweight aluminum body makes it easy to transport. Consider using a protective case to prevent dust accumulation and physical damage, especially during travel.




Figure 4.1: The compact and lightweight design of the MK-300 makes it ideal for portable storage and use anywhere.

## 5. Troubleshooting

If you encounter issues with your M-VAVE MK-300, refer to the following common troubleshooting steps:

- **No Sound Output:**
  - Check all cable connections (input, output, power).
  - Ensure the MASTER volume knob is turned up.
  - Verify that the selected preset is active and not muted.
  - Check the global EQ settings to ensure no extreme cuts are applied.
  - If using USB audio, ensure the correct output mode is selected (Nor, Dry, NoCAB).
- **Distorted or Unwanted Sound:**
  - Check input gain levels to avoid clipping.
  - Review individual effect module settings for excessive gain or unusual parameters.
  - Ensure proper impedance matching with your instrument and amplifier.
- **Pedal Not Responding:**
  - Perform pedal calibration as described in Section 3.2.1.
  - Ensure the expression pedal is correctly connected to the PEDAL 2 input.
- **Bluetooth Connectivity Issues:**
  - Ensure Bluetooth is enabled on both the MK-300 and your external device.
  - Try toggling the BT function off and on again.
  - Ensure no other devices are interfering with the Bluetooth connection.
- **System Overload/Freezing:**
  - If using many effects or resource-intensive effects (like reverb), try reducing the number of active effects or simplifying your preset.

- Ensure the firmware is up to date.
- Perform a factory reset if issues persist (refer to Section 3.2.6).

For persistent issues not covered here, please refer to the Warranty & Support section.

## 6. Specifications

| Feature | Specification |
|---|---|
| Brand | M-VAVE |
| Model Number | FBA_M008_MK300_White |
| Item Weight | 3.96 pounds (1.8 Kilograms) |
| Package Dimensions | 11.81 x 7.87 x 3.94 inches |
| Batteries | 1 Lithium Polymer battery required (included) |
| Battery Type | Lithium Polymer |
| Power Source | Battery Powered |
| Voltage | 5 Volts |
| Color | Sliver |
| Material | Aluminum |
| Compatible Devices | Guitar, Bass, Keyboard, All |
| Connector Type | XLR, 6.35mm Jack, USB-C |
| Hardware Interface | USB 3.0 Type C, USB Type C |
| Dynamic Range | 117dB |
| Working Current | 350mA |
| Sample Rate | 44.1KHz/24bit |
| Unit Dimensions | 330mm(L) x 175mm(W) x 55mm(H) |
| Unit Weight | 1550 g |
| Earphone/Phone Record Output | 1/8" Stereo (TRS) |
| L/R Balanced Outputs | XLR jacks |
| L/R Unbalanced Outputs | 1/4" TS jacks |
| Power Supply Requirements | USB 5V 2A |

| Technical parameters | |
|---|---|
| Dynamic Range | 117dB |
| Working current | 350mA |
| Sample rate | 44.1KHz/24bit |
| Unit Dimensions | 330mm(L) x 175mm(W) x 55mm(H) |
| Unit Weight | 1550 g |
| Guitar Input | 1/4" Unbalanced (TS) |
| Earphone/ Phone record Output | 1/8" Stereo (TRS) |
| L/R Balanced Outputs | XLR jacks |
| L/R Unbalanced Outputs | 1/4" TS jacks |
| Power supply requirements | USB 5V 2A |
| Battery capacity | 5000mAh |
| Attachment | USB cableX1, User manual X1, Recording cable X1 |




Figure 6.1: Technical specifications and included accessories for the M-VAVE MK-300.

## 7. Warranty & Support

The M-VAVE MK-300 comes with a manufacturer's warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the documentation included with your product or visit the official M-VAVE website.

For technical support, troubleshooting assistance beyond this manual, or inquiries about product registration and service, please contact M-VAVE customer support through their official channels. You can also visit the M-VAVE Store on Amazon for additional resources and contact information.

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