M-VAVE MVA-MK300

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

Model: MVA-MK300

Introduction

The M-VAVE MK-300 is a versatile Guitar Bass AMP Modeler & Effects Processor designed for musicians seeking extensive tone-shaping capabilities and portable performance. This unit integrates over 300 effects, 160 presets, a looper, and a drum machine, all powered by a long-lasting lithium battery. It offers intuitive controls, comprehensive connectivity, and software integration for enhanced user experience.

Safety Information

- Do not expose the unit to rain or moisture.
- Avoid extreme temperatures or direct sunlight.
- Do not disassemble the unit. Refer all servicing to qualified personnel.
- Use only the specified power adapter and cables.
- Keep out of reach of children.

Package Contents

- M-VAVE MK-300 Processor
- USB Cable
- User Manual
- Recording Cable

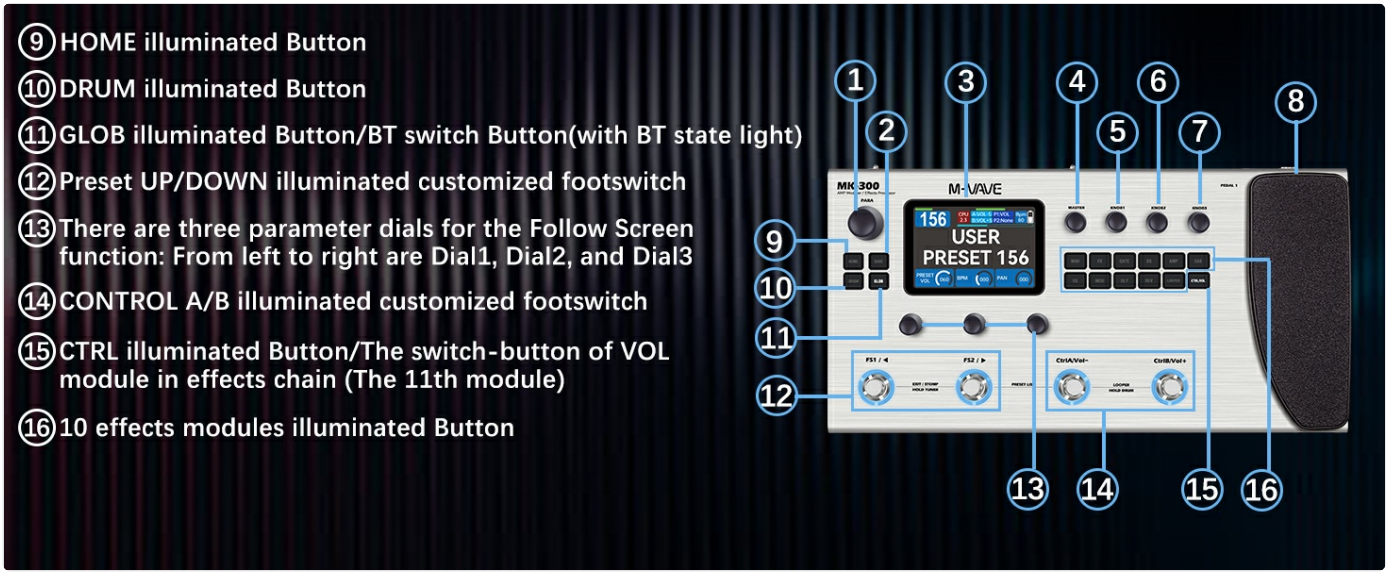


Image: The M-VAVE MK-300 unit alongside its packaging and included accessories, such as the USB cable and recording cable.

Product Overview

Front Panel Controls

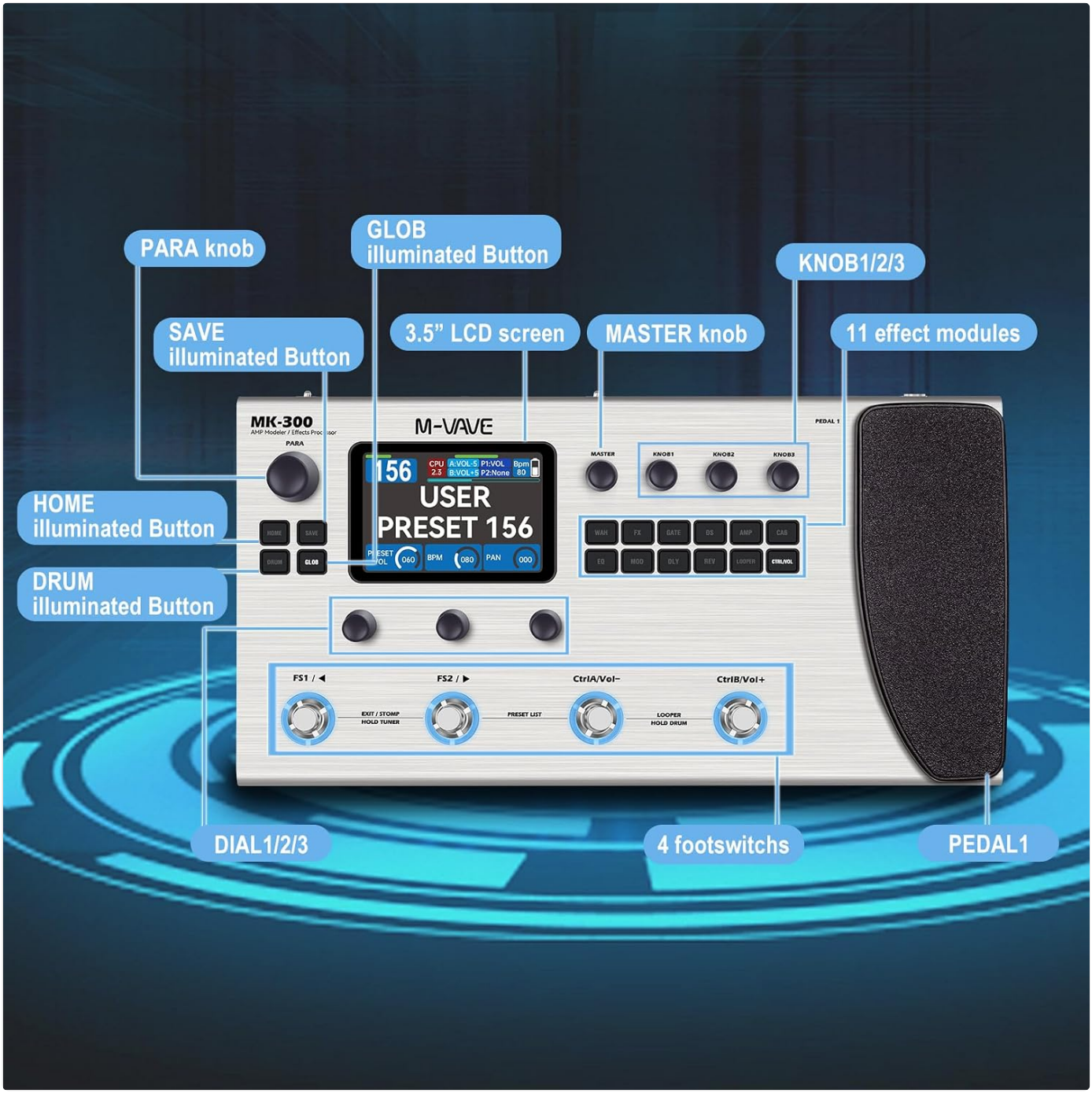


Image: A close-up view of the MK-300's top panel, highlighting the LCD screen, various knobs, and footswitches with their corresponding labels.

1. **PARA knob:** Rotate or press to navigate and select from options.
2. **SAVE illuminated Button:** Press to save current settings.
3. **3.5" chromatic LCD screen:** Displays the states and detailed information.
4. **MASTER knob:** Controls the overall output volume.
5. **KNOB1 Custom knob:** In factory condition, the function is set to the LEVEL-parameter adjustment of the AMP module.
6. **KNOB2 Custom knob:** In factory condition, the function is set to the GAIN-parameter adjustment of the AMP module.
7. **KNOB3 Custom knob:** In factory condition, the function is set to the MIDDLE-parameter adjustment of the AMP module.
8. **Expression pedal 1:** For real-time control of various parameters.
9. **HOME illuminated Button:** Returns to the main screen.

10. **DRUM illuminated Button:** Activates and controls the drum machine.
11. **GLOB illuminated Button/BT switch Button:** Global settings and Bluetooth switch with state light.
12. **Preset UP/DOWN illuminated customized footswitch:** Navigates through presets.
13. **DIAL1/2/3:** Three parameter dials for the Follow Screen function.
14. **CONTROL A/B illuminated customized footswitch:** Assignable control footswitches.
15. **CTRL illuminated Button/The switch-button of VOL module in effects chain:** Controls the volume module in the effects chain.
16. **10 effects modules illuminated Button:** Buttons to access different effect modules.

Rear Panel Connections

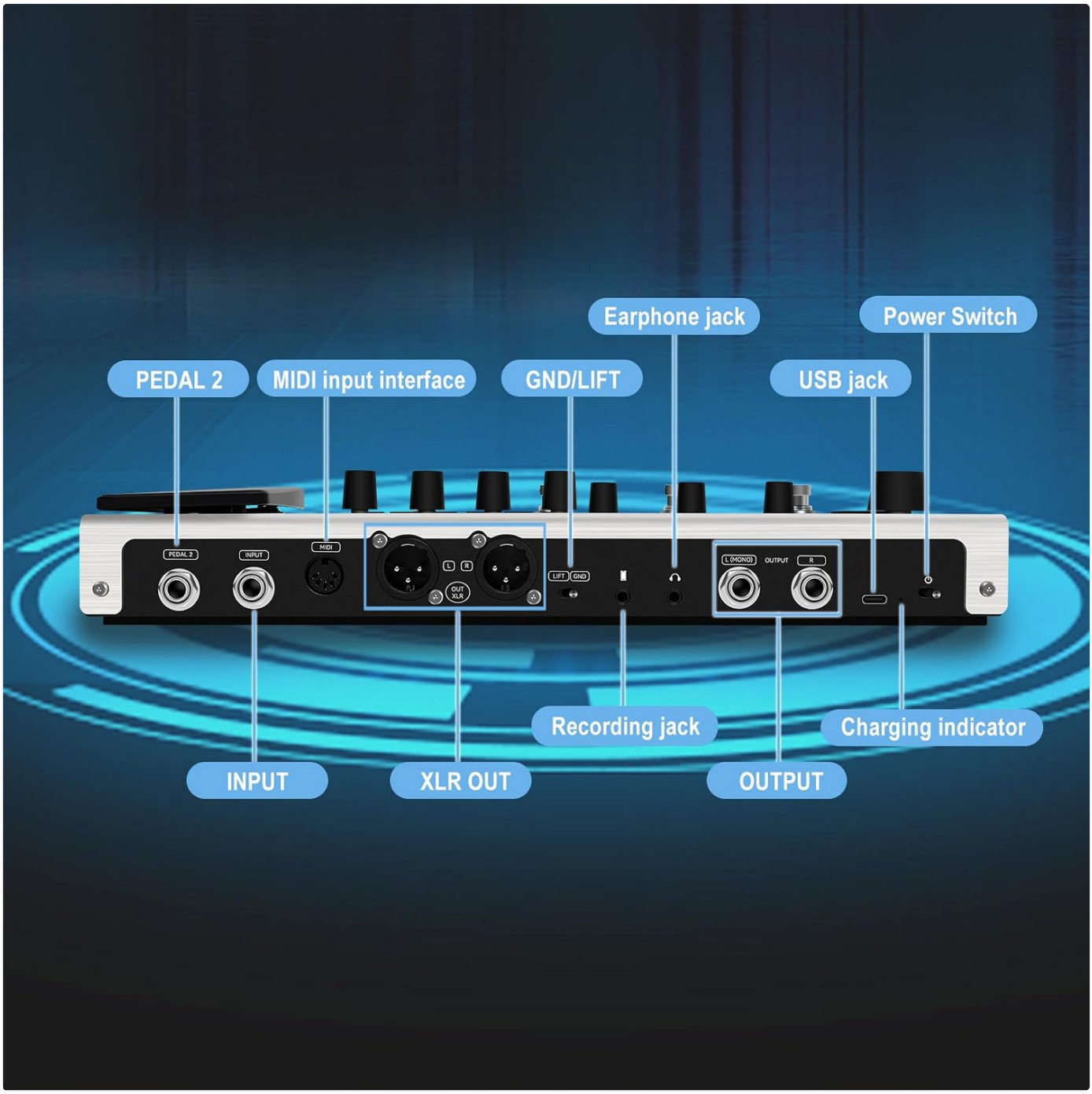


Image: A close-up view of the MK-300's rear panel, showing all input and output jacks, including USB, MIDI, and audio connections.

1. **PEDAL 2:** 1/4" stereo audio input jack for an external expression pedal.
2. **INPUT:** 1/4" mono audio input jack for instrument connection.
3. **MIDI:** 5 PIN MIDI port, MIDI IN for external MIDI control.

4. **XLR OUT:** XLR stereo audio output for balanced signal. Connect to L for mono setup.
5. **GND/LIFT:** Ground and lift switch for XLR output to eliminate hum.
6. **Phone recording jack:** For direct recording to a smartphone.
7. **PHONES:** 1/8" stereo earphone output jack for monitoring.
8. **OUTPUT:** 1/4" stereo audio output jack for unbalanced signal. Connect to L(MONO) for mono audio setup.
9. **USB jack:** For connecting to a computer for software control, recording, and firmware updates.
10. **Charging indicator:** LED light indicating charging status.
11. **Power Switch:** Toggles the unit on/off.

Setup

Initial Power On and Charging

Before first use, ensure the M-VAVE MK-300 is fully charged. Connect the provided USB cable to the USB jack on the rear panel and to a compatible USB power adapter (not included) or a computer USB port. The charging indicator LED will show the charging status. A full charge provides approximately 10 hours of battery life.

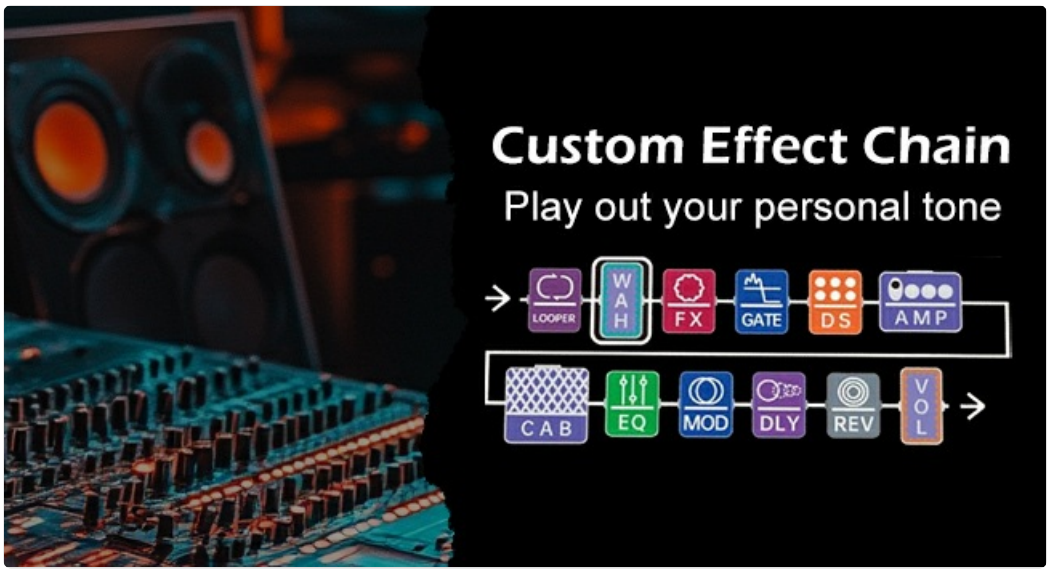


Image: The MK-300 unit with an overlay indicating its 10+ hour battery life and 5000 mAh battery capacity.

Connecting Your Instrument and Audio Output

1. Connect your guitar or bass to the **INPUT** jack on the rear panel using a 1/4" mono instrument cable.
2. For connecting to an amplifier or mixer, use the **OUTPUT** 1/4" jacks (L/MONO for mono setup) or the balanced **XLR OUT** jacks.
3. For silent practice, connect headphones to the **PHONES** 1/8" stereo earphone output jack.

Operating Instructions

Power On/Off

To power on the unit, toggle the **Power Switch** on the rear panel to the ON position. To power off, toggle it back to the OFF position.

Navigating Presets and Effects

The **3.5" chromatic LCD screen** displays current preset information and effect chain details. Use the **PARA knob** to

navigate menus and adjust parameters. The **Preset UP/DOWN footswitches** allow quick switching between presets. The **10 effects modules illuminated Buttons** provide direct access to individual effect blocks.



Image: The MK-300's LCD screen displaying "USER PRESET 156" along with various parameters like volume, BPM, and pan, indicating the unit's intuitive interface.



Image: A visual representation of the customizable effect chain on the MK-300, demonstrating how users can arrange WAH, FX, GATE, DS, AMP, CAB, EQ, MOD, DLY, REV, and VOL modules.



Image: A diagram illustrating the custom effect chain functionality of the MK-300, allowing users to personalize their tone by arranging various effect modules.

Looper and Drum Machine

The MK-300 features a built-in looper with 150 seconds of recording time and a drum machine with 128 drum kit rhythms. Activate the drum machine using the **DRUM illuminated Button**. The looper can be controlled via dedicated footswitches or through the interface.

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Video: A demonstration of the M-VAVE MK-300's multi-effect capabilities, including its drum machine and looper functions, showcasing its versatility for practice and performance.

Software and App Integration

The M-VAVE MK-300 supports PC and mobile software for intelligent operation and management. This allows for easy device management, intuitive control, and efficient tone/feature expansion. Third-party IRs (Impulse Responses) can also be loaded via the software.



Image: The MK-300 connected to both a laptop and a smartphone, illustrating its compatibility with the SMART APP for intelligent operation and management, including the loading of third-party IRs.

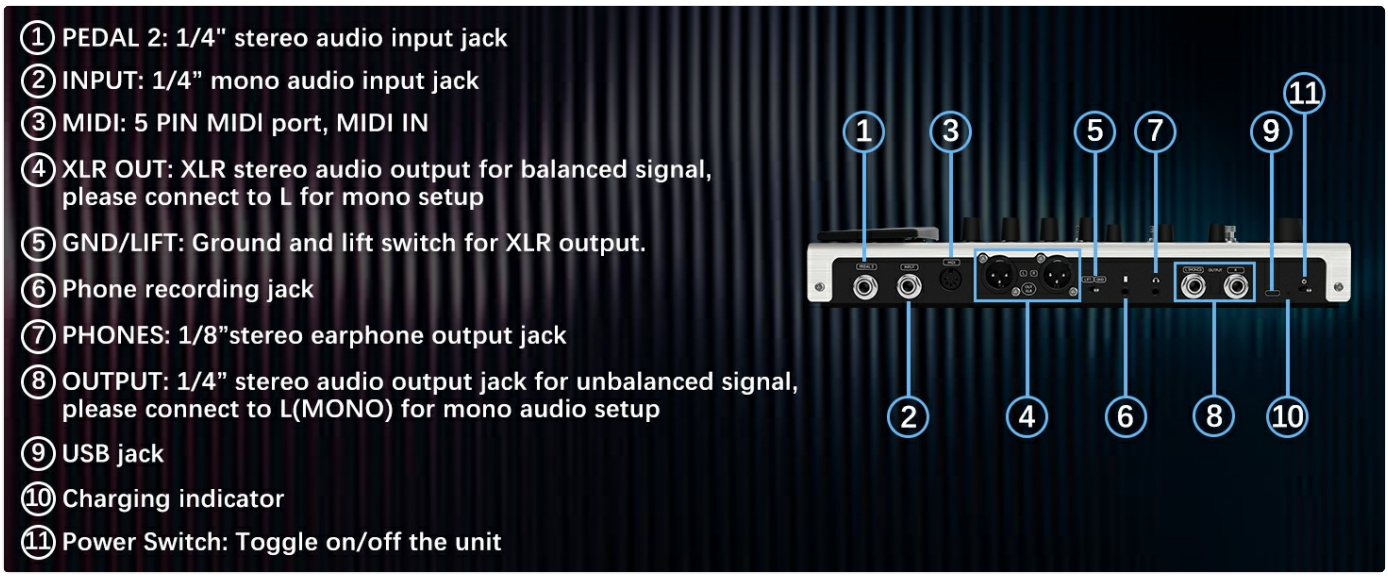


Image: A display of the M-EFCS Official Software interface, showing how users can download sound samples and manage their device via computer or mobile app.

Recording Features (USB Sound Card & OTG)

The MK-300 functions as a USB sound card, allowing you to record VLOGs, demos, practice music pieces, and host software recording creations directly to your computer. It also supports OTG (On-The-Go) for smartphone internal recording, including drum machine outputs.

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



Image: The MK-300 demonstrating its USB sound card function for recording to a laptop and its OTG recording capability for direct smartphone recording.

Maintenance

Cleaning

Wipe the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents, as they may damage the finish.

Storage

When not in use for extended periods, store the unit in a cool, dry place away from direct sunlight and extreme temperatures. It is recommended to store it in a protective case to prevent damage.



Image: The MK-300 placed inside a protective carrying case, illustrating recommended storage for portability and collision avoidance.

Firmware Updates

M-VAVE continuously optimizes the firmware and updates features. Connect the unit to your computer via USB and use the official software to check for and install the latest firmware updates.

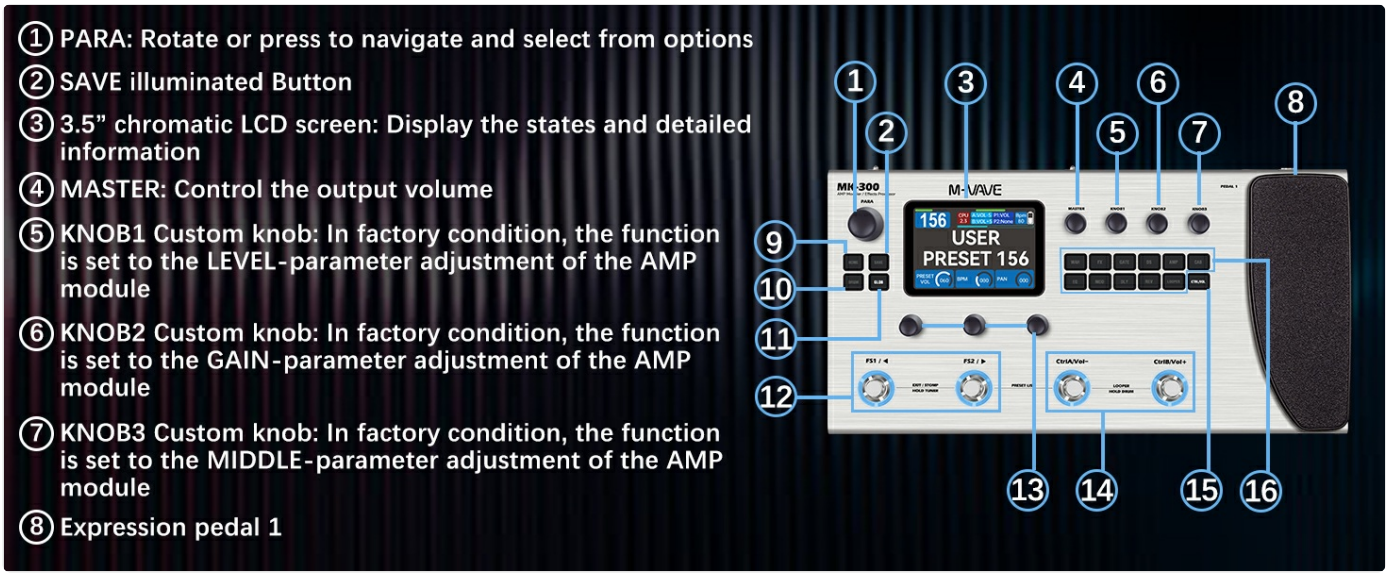


Image: A computer screen showing the firmware update interface for the MK-300, indicating the process of connecting the device to optimize and update features.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output.	Incorrect cable connection, low volume, unit not powered on.	Check all audio cable connections. Ensure the unit is powered on and the MASTER volume knob is turned up. Check individual effect module volumes.
Unit does not power on.	Battery depleted, power switch off, faulty USB cable/power source.	Charge the unit fully. Ensure the power switch is in the ON position. Try a different USB cable or power source.
Software/App not connecting.	Bluetooth not enabled, incorrect USB connection, outdated drivers.	Ensure Bluetooth is enabled on the unit and your device. Reconnect the USB cable. Check for and install the latest drivers/software from the M-VAVE website.
Unwanted noise/hum.	Ground loop, faulty cables, interference.	Use the GND/LIFT switch on the rear panel. Try different cables. Ensure power sources are stable and free from interference.

SPECIFICATIONS

Feature	Detail
Dynamic Range	117dB
Working current	350mA
Sample rate	44.1KHz/24bit
Unit Dimensions	330mm(L) x 175mm(W) x 55mm(H)

Feature	Detail
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
Effects	300+
Presets	160
Amp Models	120
Cab Models	100
Drum Machines	128
Looper Recording Time	150 seconds

Warranty and Support

For warranty information and technical support, please refer to the official M-VAVE website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.
Official M-VAVE Store: Visit the M-VAVE Store on Amazon

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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