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M-VAVE MK-20

M-VAVE MK-20 Electric Guitar Multi Effects Pedal User Manual

Model: MK-20

1. Introduction

The M-VAVE MK-20 is a versatile multi-effects processor designed for electric guitar and bass. It integrates a wide range of amp models, cabinet simulations, and effects, along with a looper and drum machine, into a portable unit. This manual provides essential information for setting up, operating, and maintaining your MK-20 pedal.



Image 1.1: The M-VAVE MK-20 Multi Effects Pedal, showcasing its compact design and integrated expression pedal.

2. Setup

2.1 Package Contents

- M-VAVE MK-20 Multi Effects Pedal
- USB Cable
- 6.35mm Audio Cable
- User Manual (this document)

2.2 Powering the Unit

The MK-20 can be powered via a 5V DC power adapter (not included) or its internal battery. Ensure the unit is fully charged for optimal portable use. The battery provides over 8 hours of operation.

2.3 Connections

Connect your guitar to the **Input** jack and your amplifier or audio interface to the **Output** jacks. Use the USB port for connecting to a computer for recording or software management.



Image 2.1: The MK-20 pedal shown with its accompanying cables, ready for connection to a guitar and amplifier.

2.4 Software Installation

For advanced editing, firmware updates, and community preset management, M-VAVE provides dedicated software (M-EFCS and M-UPGRADE). Refer to the official M-VAVE website for the latest software versions and detailed installation instructions. Ensure your operating system meets the minimum requirements.

3. Operating Instructions

3.1 User Interface Overview

The MK-20 features a color LCD display, multiple footswitches, and control knobs for navigation and parameter adjustment. The footswitches are backlit and provide instant control with LED indicators.



Image 3.1: A detailed view of the MK-20's display and primary control interface.

3.2 Amp Models and Cabinet Simulations

The unit includes 120 ANN (Artificial Neural Network) amp models, offering a range of tones for guitar, bass, and acoustic instruments. It also features 100 cabinet simulations. These models are designed to emulate the characteristics of various amplifiers and speaker cabinets.



Image 3.2: Visual representation of the 120 Neural Amp Models available, categorized for different instruments.



Image 3.3: The MK-20's ANN modeling technology aims to replicate the response and feel of tube amplifiers.

3.3 Effects and Signal Chain

Over 320 effects are available, organized into 10 reorderable modules. This allows for flexible signal chain customization. Users can drag and drop effects within the software interface to build custom tones.



Image 3.4: The movable effects chain feature, allowing users to customize the order of effects.



Image 3.5: Overview of the extensive effects library and signal path customization options.

3.4 Presets

The MK-20 allows saving up to 150 user presets. These presets can be recalled quickly, and a global EQ control is available for overall tone adjustment.



Image 3.6: The MK-20 pedal in a creative setting, highlighting its use for storing and recalling tones.

3.5 Looper and Drum Machine

A built-in 20-second looper allows for recording and layering guitar phrases. The unit also includes a drum machine with 128 drum patterns, providing rhythmic backing for practice or performance.



Image 3.7: Key features of the MK-20, including its looper and drum machine capabilities.



Image 3.8: Detailed views of the USB port and the looper interface on the MK-20's display.

3.6 Connectivity and Recording

The MK-20 supports Bluetooth for audio streaming and MIDI control, enabling wireless interaction with other devices. USB OTG (On-The-Go) recording and Re-Amp functions are available for direct connection to computers or mobile devices, facilitating studio-quality recording.



Image 3.9: The MK-20's portability and connectivity options, including USB and Bluetooth.



Image 3.10: The internal DSP (Digital Signal Processor) of the MK-20, responsible for its effects and modeling capabilities.

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Video 3.1: A user guide demonstrating the features and operation of the M-VAVE MK-20 Multi Effects Pedal.

4. Maintenance

To ensure the longevity and optimal performance of your M-VAVE MK-20, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid abrasive cleaners or solvents, which can damage the finish.
- **Storage:** Store the pedal in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** If the unit will not be used for an extended period, ensure the battery is partially charged (around 50%) before storage to prolong its lifespan. Avoid fully discharging the battery for long periods.
- **Connections:** Periodically check all cable connections for wear and tear. Ensure cables are securely plugged in during use.

5. Troubleshooting

This section addresses common issues you might encounter with the M-VAVE MK-20.

5.1 No Sound Output

- **Check Connections:** Ensure all audio cables (guitar to input, output to amp/interface) are correctly and securely connected.
- **Volume Levels:** Verify that the master volume on the MK-20 and your amplifier/interface is turned up. Check individual effect and patch volumes.
- **Power:** Confirm the unit is powered on and has sufficient battery charge or is connected to a working power adapter.
- **Bypass Mode:** Ensure the unit is not in a bypass mode that mutes the signal.

5.2 Software/Firmware Update Issues

Some users may experience challenges with software connectivity or firmware updates. If you encounter issues such as the unit not being recognized by the computer, failed updates, or unexpected behavior after an update:

- **Consult Official Resources:** Always refer to the latest M-VAVE official website for updated software, firmware, and detailed troubleshooting guides specific to these processes.
- **USB Connection:** Ensure a stable USB connection. Try different USB ports or cables.
- **Software Version:** Verify you are using the correct and latest versions of the M-EFCS and M-UPGRADE software.
- **Restart Devices:** Restart both the MK-20 and your computer.

5.3 Unit Freezes or Behaves Erratically

- **Power Cycle:** Turn the unit off, wait a few seconds, and then turn it back on.
- **Factory Reset:** If issues persist, a factory reset may resolve them. Refer to the M-VAVE website or support for instructions on performing a factory reset, as this will erase user presets.
- **Corrupted Presets:** In rare cases, a specific user preset might cause instability. If the unit freezes when loading a particular preset, try deleting or overwriting that preset.

6. Specifications

Feature	Specification
Brand	M-VAVE
Model Name	MK-20
Product Dimensions	2.5"L x 3"W x 11.8"H (6.35 cm x 7.62 cm x 29.97 cm)
Item Weight	1.8 kg
Voltage	5 volts
Amperage	2 A
Audio Output Effects	Multi-Effect
Controls Type	Footswitch

Power Source	Battery Powered
Hardware Interface	USB
Signal Format	Digital
Connector Type	6.35mm

7. Warranty and Support

7.1 Warranty Information

The M-VAVE MK-20 comes with a one-year manufacturer's warranty. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation included with your product or visit the official M-VAVE website.

7.2 Customer Support

For further assistance, technical support, or inquiries not covered in this manual, please visit the official M-VAVE website or contact their customer service department. Up-to-date contact information and additional resources can typically be found on the manufacturer's website.

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