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> [M-VAVE](#) /

> M-VAVE MK-20 Multi-Effect Processor User Manual

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Model: MK-20

1. INTRODUCTION

The M-VAVE MK-20 is a versatile multi-effect processor designed for both guitarists and bassists. It offers a wide array of effects, amplifier models, and essential tools like a drum machine and looper, making it suitable for practice, recording, and live performances. This manual provides detailed instructions for setting up, operating, and maintaining your MK-20 unit.

2. SAFETY INFORMATION

- Do not expose the unit to rain, moisture, or extreme temperatures.
- Use only the specified power adapter (USB 5V/2A) to prevent damage.
- Avoid placing the unit near heat sources or in direct sunlight.
- Do not attempt to disassemble or modify the unit. Refer all servicing to qualified personnel.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Please check that your package contains the following items:

- M-VAVE MK-20 Multi-Effect Processor
- USB-C Cable
- User Manual (this document)

4. PRODUCT OVERVIEW

Familiarize yourself with the various components and controls of your MK-20 unit.



Figure 4.1: Top-down view of the M-VAE MK-20 Multi-Effect Processor, showing the display, control knobs, footswitches, and expression pedal. This image provides a comprehensive look at the main user interface.



Figure 4.2: Front angled view of the M-VAE MK-20 Multi-Effect Processor, highlighting the display, control knobs, and footswitches. This perspective shows the ergonomic layout for foot control.



Figure 4.3: Rear view of the M-VAVE MK-20 Multi-Effect Processor, displaying the input/output jacks, MIDI port, headphone jack, USB-C port, and power button. This image details all available connectivity options.

4.1. Controls and Connections

- **Display Screen:** Shows current preset, effect chain, parameters, and other operational information.
- **Control Knobs:** Used for parameter adjustment and menu navigation.
- **Footswitches (A, B, C):** For switching presets, engaging/disengaging effects, and activating tuner/looper functions.
- **Expression Pedal:** Assignable to various parameters for real-time control (e.g., volume, wah).
- **Input (6.35mm Jack):** Connect your guitar or bass.
- **Output L/R (6.35mm Jacks):** Connect to an amplifier, mixer, or audio interface.
- **Headphone Out (3.5mm Jack):** For silent practice.
- **MIDI In/Out (3.5mm Jack):** For connecting to MIDI devices.
- **USB-C Port:** For power, firmware updates, and USB audio interface functionality.
- **Bluetooth:** For wireless control and audio streaming.

5. SETUP

5.1. Power Connection

1. Connect the USB-C cable to the MK-20's USB-C port.
2. Connect the other end of the USB-C cable to a 5V/2A USB power adapter (not included) or a compatible USB power source.
3. The unit will power on automatically or can be turned on using the power button if available.

5.2. Instrument and Amplifier Connections

1. Connect your guitar or bass to the **INPUT** (6.35mm) jack on the MK-20.
2. Connect the **OUTPUT L/R** (6.35mm) jacks of the MK-20 to your amplifier, mixer, or audio interface. For mono operation, use the L (MONO) output.
3. For silent practice, connect headphones to the **3.5mm Headphone Out** jack.

5.3. USB Audio and Bluetooth Connectivity

- **USB Audio:** Connect the MK-20 to your computer (PC/Mac) or mobile device via the USB-C cable. The unit will function as an audio interface for recording or playback.
- **Bluetooth:** Enable Bluetooth on your mobile device. Search for and pair with the MK-20. This allows for wireless control via a dedicated app (if available) and potentially audio streaming.

6. OPERATING INSTRUCTIONS

6.1. Basic Navigation

- Use the main rotary knob to scroll through menus and select options.
- The smaller control knobs typically adjust parameters displayed on the screen.
- Footswitches A, B, and C are used to switch between presets or engage/disengage individual effects within a preset.

6.2. Preset Management

The MK-20 features 150 customizable presets (75 factory + 75 user). To load a preset, use the footswitches or rotary knob to navigate. To save a custom preset:

1. Adjust effects and parameters to your desired sound.
2. Access the 'Save' function (refer to on-screen prompts or dedicated 'SET' button).
3. Select an empty user preset slot or overwrite an existing one.
4. Confirm your selection to save.

6.3. Effect Chain Customization

The unit supports a flexible 10-module effect chain, allowing you to arrange FX, Drive, Amp, Cab, EQ, Modulation, Delay, Reverb, Drum, and Volume modules in any order. Use the display and control knobs to:

- Select a module slot.
- Choose an effect type from over 320 options.
- Adjust parameters for the selected effect.
- Reorder modules within the chain.

6.4. Drum Machine and Looper

- **Drum Machine:** The integrated drum machine offers 128 rhythm patterns. Access this feature via the 'DRUM' button or menu. Select a pattern and adjust tempo (BPM) for practice or songwriting.
- **Looper:** The 20-second looper allows for recording and layering audio phrases. Activate the looper by holding the designated footswitch (e.g., 'HOLD LOOPER'). Follow on-screen instructions for recording, overdubbing, and playback.

6.5. Tuner Function

To activate the built-in tuner, hold the designated footswitch (e.g., 'HOLD TUNER'). The display will show your note and pitch accuracy, allowing for precise tuning.

7. MAINTENANCE

7.1. Cleaning

Wipe the unit with a soft, dry cloth. Do not use abrasive cleaners, waxes, or solvents, as these can damage the finish and electronic components.

7.2. Storage

When not in use for extended periods, store the MK-20 in a cool, dry place away from direct sunlight and extreme temperatures. Disconnect all cables.

7.3. Firmware Updates

Periodically check the M-VAVE official website for firmware updates. Updates can provide new features, bug fixes, and performance improvements. Follow the instructions provided with the firmware update package carefully.

8. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|-----------------------------|---|---|
| No power | Incorrect power adapter; loose USB-C connection | Ensure 5V/2A USB power is used; check USB-C cable connection. |
| No sound output | Incorrect cable connection; volume too low; effect bypassed | Check instrument and output cables; increase master volume; ensure effects are engaged. |
| Bluetooth connection issues | Unit not in pairing mode; interference | Ensure Bluetooth is enabled on both devices; try re-pairing; move closer to the unit. |
| Unwanted noise/hum | Ground loop; faulty cables; high gain settings | Use shielded cables; try a different power outlet; reduce gain on high-gain effects. |

9. SPECIFICATIONS

| Feature | Detail |
|----------------------|--|
| Brand | M-VAVE |
| Model | MK-20 (MVA-MK20) |
| Product Weight | 790 Grams |
| Dimensions | 16.5 x 6 x 25.5 centimeters |
| Voltage | 5 Volts |
| Power Source Type | Corded Electric (USB 5V/2A) |
| Audio Output Effects | Multiple Effects (320+ types) |
| Control Type | Push Button, Rotary Knobs, Footswitches |
| Hardware Interface | 1/4 inch Audio, 3.5 mm Audio Jack, USB-C, MIDI |
| Signal Format | Analog |
| Sampling Frequency | 44.1 kHz / 24 bits |
| Preset Memory | 150 (75 factory + 75 user) |

| Feature | Detail |
|----------------|-------------------------------------|
| Effect Modules | 10 assignable modules in chain |
| Amp/Cab Models | 120+ Amp models, 100 Cab/IR options |
| Drum Machine | 128 rhythm patterns |
| Looper | 20 seconds recording time |
| Battery Life | Up to 8 hours (usage dependent) |

10. WARRANTY INFORMATION

M-VAVE products are designed and manufactured to high-quality standards. This product is covered by a limited warranty against defects in materials and workmanship. Please refer to the warranty card included with your purchase or visit the official M-VAVE website for detailed warranty terms and conditions specific to your region.

11. SUPPORT

For further assistance, technical support, or service inquiries, please visit the official M-VAVE website or contact their customer service department. You may find FAQs, additional resources, and contact information there.