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› M-Vave IR-Box Speaker Simulation Pedal User Manual

## M-VAVE MVA-IRBOX

# M-Vave IR-Box Speaker Simulation Pedal User Manual

## 1. INTRODUCTION

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The M-Vave IR-Box is a compact and versatile speaker simulation pedal designed for guitarists and bassists. It integrates Impulse Response (IR) technology to provide authentic cabinet sounds, offering a wide range of tones for various musical styles. This manual provides essential information for setting up, operating, and maintaining your IR-Box pedal.

## 2. KEY FEATURES

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- Simple and high-quality design.
- 32 built-in presets with Impulse Response (IR) technology.
- Includes 25 electric guitar cabinet simulations and 7 electric bass cabinet simulations.
- USB connectivity for computer-based modulation and customization.
- Ultra-low latency of less than 1.5 ms for immediate response.
- High-performance digital signal processing with 103 dB signal-to-noise ratio.
- 44.1 kHz 24-bit sampling rate for premium sound quality.
- Supports custom IR files with 1024 sample points.
- Professional 9-segment equalizer module (via software/app) with a  $\pm 12$  dB adjustment range (20 Hz to 18 kHz).
- Multiple output options: 1/4" TS unbalanced, XLR balanced, and 1/8" TRS stereo headphone.

## 3. SETUP

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### 3.1 Unpacking and Inspection

Carefully unpack the M-Vave IR-Box and inspect it for any signs of damage. Ensure all included components are present.

### 3.2 Power Connection

The IR-Box can be powered by a DC 9V power supply (minimum 300mA, not included) or via USB 5V (minimum 300mA) from a computer or USB power adapter. Connect the appropriate power source to the pedal.

### 3.3 Audio Connections

Connect your instrument (guitar or bass) to the **IN** jack using a 1/4" TS instrument cable. Connect the **OUT** jack to your amplifier, mixer, or audio interface using a 1/4" TS cable. For balanced output, use an XLR cable from the **XLR** output. For silent practice, connect headphones to the **1/8" TRS** headphone output.



Image 3.3.1: Top-down view of the M-Vave IR-Box pedal, highlighting the input (IN), output (OUT), XLR port, and control knobs for LOW CUT, VOL, and HI CUT. The bypass button and display are also visible.

### 3.4 USB Connection

Connect the pedal to your computer using the supplied USB-C data cable. This connection allows for firmware updates, software control, IR file customization, and preset management.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Powering On/Off

Once connected to a power source, the pedal will automatically power on. There is no dedicated power switch. Disconnect the power source to turn off the unit.

### 4.2 Preset Selection

Use the '+' and '-' buttons to navigate through the 32 available presets. The current preset number will be displayed on the screen.

### 4.3 Bypass Function

Press the **BYPASS** button to toggle the effect on or off. When bypassed, the signal passes through the pedal without IR processing.

### 4.4 Control Knobs

- **LOW CUT:** Adjusts the low-frequency cutoff point. Turn clockwise to remove more low-end frequencies.
- **VOL:** Controls the overall output volume of the pedal.
- **HI CUT:** Adjusts the high-frequency cutoff point. Turn clockwise to remove more high-end frequencies.



Image 4.4.1: Angled view of the M-Vave IR-Box pedal, clearly showing the LOW CUT, VOL, and HI CUT knobs, along with the display and bypass/preset buttons.

## 5. MODULATION AND CUSTOMIZATION

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The M-Vave IR-Box offers extensive customization options via its official software and mobile application. Connect the pedal to your computer via USB to access these features.

### 5.1 IR Module Customization

Within the software, you can customize IR files. The IR module supports 44.1 kHz 24-bit sampling rate and IR files with 1024 sample points. This allows you to load your own impulse responses to further tailor your sound.

### 5.2 EQ Module

The official software and mobile app include a professional 9-segment equalizer module. This EQ allows you to fine-tune frequency ranges from 20 Hz to 18 kHz with a  $\pm 12$  dB adjustment range, providing precise tonal control.

- **Default Mode:** The IR module is active, and the EQ module is deactivated.
- **Activating EQ:** The EQ module can be manually activated via the software/app.
- **Independent EQ:** If the IR module is deactivated, the EQ module can be used independently.

### 5.3 Preset Management

The software allows for one-click import and export of presets, simplifying the process of sharing and backing up your customized settings.

## 6. MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the pedal's exterior. Avoid abrasive cleaners or solvents.
- **Storage:** Store the pedal in a dry environment, away from extreme temperatures, direct sunlight, and high humidity.
- **Handling:** Avoid dropping the pedal or subjecting it to strong impacts, which could damage internal components.

## 7. TROUBLESHOOTING

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- **No Sound:**
  - Ensure the power supply is correctly connected and providing sufficient power.
  - Check all audio cables for proper connection and functionality.
  - Verify that the pedal is not in bypass mode if you expect an effect.
  - Confirm that the volume knob (VOL) is not set to minimum.
- **Poor Sound Quality/Noise:**
  - Ensure you are using a regulated power supply.
  - Check for faulty cables or connections.
  - Adjust the LOW CUT and HI CUT knobs to shape the frequency response and reduce unwanted frequencies.
  - If using custom IRs, ensure they are correctly formatted and loaded.
- **Pedal Not Responding to USB:**

- Ensure the USB-C cable is securely connected to both the pedal and the computer.
- Try a different USB port on your computer.
- Restart your computer and the pedal.
- Ensure you have the latest official software and drivers installed.

## 8. SPECIFICATIONS

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|                        |                          |
|------------------------|--------------------------|
| Input Impedance        | 1 MΩ                     |
| Unbalanced Output      | 1/4" TS interface        |
| Balanced Output        | XLR interface            |
| Headphone Output       | 1/8" stereo (TRS) output |
| Power Supply 1         | DC 9V ≥ 300 mA           |
| Power Supply 2         | USB 5V ≥ 300 mA          |
| Operating Current (9V) | 80 mA                    |
| Operating Current (5V) | 120 mA                   |
| Latency                | < 1.5 ms                 |
| Signal-to-Noise Ratio  | 103 dB                   |
| Sampling Rate          | 44.1 kHz 24-bit          |
| IR Sample Points       | 1024                     |
| Dimensions (L x W x H) | 90 x 50 x 45 mm          |
| Weight                 | 155g                     |
| Model Number           | MVA-IRBOX                |

## 9. WHAT'S IN THE BOX

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- M-Vave IR-Box Pedal
- USB-C Data Cable

## 10. WARRANTY AND SUPPORT

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The M-Vave IR-Box comes with a **2-year manufacturing warranty**. For technical support, troubleshooting assistance, or warranty claims, please contact your retailer or visit the official M-Vave website for further information.