Midiplus K-MPST-R2

Midiplus Routist R2 USB Audio Interface User Manual

Model: K-MPST-R2

1. INTRODUCTION

The Midiplus Routist R2 is a compact and versatile 2-input, 2-output USB audio interface designed for high-quality audio recording, live streaming, and podcasting. It features XLR/TRS combo inputs, 48V phantom power for condenser microphones, and an OTG port for direct mobile device connectivity. With 24-bit/96kHz audio resolution, the Routist R2 provides clear and professional sound for various applications.

Image 1.1: Top-down view of the Midiplus Routist R2 USB Audio Interface. This image displays the overall design and the layout of the main controls on the top panel.

2. CONTROLS AND CONNECTIONS

Familiarize yourself with the various controls and connection points on your Routist R2 interface.

2.1 Front Panel Controls

- **48V Button:** Activates +48V phantom power for condenser microphones connected to Input 1. An indicator light will illuminate when active.
- **GAIN Knob:** Adjusts the input gain level for the connected microphone or instrument. Turn clockwise to increase gain.
- **MONITOR Knob:** Controls the output level for the monitor outputs (speakers).
- **HEADPHONE Knob:** Adjusts the volume for the connected headphones.
- **INST Button:** Toggles Input 2 between Line-level and Instrument (Hi-Z) mode. Use Instrument mode for direct connection of guitars or basses.

Image 2.1: Diagram illustrating the front panel controls of the Routist R2, including the 48V button, GAIN, MONITOR, HEADPHONE knobs, and INST button.

2.2 Rear and Side Panel Connections

- **INPUT 1 (XLR/TRS Combo):** Connects microphones (XLR) or line-level instruments (TRS).

- **INPUT 2 (TRS):** Connects line-level instruments or, when INST button is active, high-impedance instruments like guitars.

- **USB Port:** Connects the Routist R2 to your computer for power and data transfer.

- **OTG Port:** Connects to compatible mobile phones for direct audio input/output.

- **MONITOR Outputs (TRS L/R):** Connects to active studio monitors for audio playback.

- **PHONE Output (3.5mm):** Connects to the headset jack of a mobile phone for analog audio signal transmission.

- **HEADPHONE Output (3.5mm):** Connects to stereo headphones for monitoring.

Image 2.2: Diagram illustrating the rear and side panel connections of the Routist R2, including USB, OTG, Monitor, Phone, and Input ports.

3. SETUP GUIDE

Follow these steps to set up your Midiplus Routist R2 audio interface.

3.1 Computer Connection

1. Connect the Routist R2 to your computer using a standard USB cable. The device is bus-powered, so no external power supply is needed.

2. **For Windows:** Download and install the latest ASIO driver from the official Midiplus website for low-latency performance.

3. **For macOS:** The Routist R2 is class-compliant and does not require additional drivers. It will work immediately upon connection.

4. Select the Routist R2 as your audio input and output device in your operating system's sound settings and your Digital Audio Workstation (DAW) software.

3.2 Mobile Phone Connection (OTG)

1. Connect your mobile phone to the OTG port on the Routist R2 using a compatible OTG cable.

2. Ensure your mobile device supports OTG audio input/output.

3. The Routist R2 will be recognized as an external audio device by your phone for streaming or recording applications.

3.3 Connecting Microphones and Instruments

1. **Microphone:** Connect an XLR microphone to INPUT 1. If using a condenser microphone, press the **48V** button to supply phantom power.

2. **Instrument (Guitar/Bass):** Connect your instrument to INPUT 2 using a TRS cable. Press the **INST** button to activate Hi-Z mode for optimal impedance matching.

3. **Line-Level Device:** Connect line-level devices (e.g., synthesizers, drum machines) to INPUT 1 (TRS) or INPUT 2 (TRS) with the **INST** button deactivated.

3.4 Connecting Monitoring Devices

1. **Studio Monitors:** Connect your active studio monitors to the **MONITOR Outputs (TRS L/R)**.
2. **Headphones:** Connect your headphones to the **HEADPHONE Output (3.5mm)**.
3. **Mobile Phone Headset:** For specific mobile streaming setups, connect a mobile phone headset to the **PHONE Output (3.5mm)**.

4. OPERATING INSTRUCTIONS

This section details how to operate your Routist R2 for various audio tasks.

4.1 Adjusting Input Levels

- Before recording, speak into your microphone or play your instrument at the loudest expected level.
- Adjust the corresponding **GAIN** knob until the input level indicators on your DAW or the Routist R2 (if present) show a strong signal without clipping (red light). Aim for peaks around -6dB to -3dB.

4.2 Monitoring Audio

- Use the **MONITOR** knob to control the overall playback volume through your studio monitors.
- Use the **HEADPHONE** knob to adjust the volume for your headphones.
- The Routist R2 typically offers direct monitoring, allowing you to hear your input signal with zero latency before it goes through your computer. Consult your DAW's settings for further monitoring options.

4.3 Recording and Streaming

- Once connected and levels are set, open your preferred DAW (e.g., Ableton Live, Logic Pro, Cubase) or streaming software (e.g., OBS, Streamlabs).
- Select the Routist R2 as your audio input and output device within the software's preferences.
- Create new audio tracks and arm them for recording, ensuring the correct input channel is selected.
- For mobile streaming, ensure your streaming application recognizes the Routist R2 via the OTG connection.

5. MAINTENANCE

Proper care ensures the longevity and optimal performance of your Routist R2.

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the device. Avoid abrasive cleaners, solvents, or waxes.
- **Storage:** Store the Routist R2 in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts. Do not attempt to open the casing, as this will void the warranty.
- **Ventilation:** Ensure the device has adequate ventilation and is not covered during operation to prevent overheating.

6. TROUBLESHOOTING

If you encounter issues with your Routist R2, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
No sound from monitors/headphones.	Incorrect volume settings, wrong output selected, faulty cables.	Check MONITOR/HEADPHONE knobs. Ensure Routist R2 is selected as output in OS/DAW. Verify cable connections.

Problem	Possible Cause	Solution
No input signal detected.	Incorrect input selected, GAIN too low, 48V not active (for condenser mics), INST button incorrect.	Check GAIN knob. Ensure correct input channel is selected in DAW. Activate 48V for condenser mics. Toggle INST button for instruments.
Distorted or noisy audio.	GAIN too high, faulty cable, ground loop.	Reduce GAIN to prevent clipping. Try different cables. Ensure proper grounding.
Device not recognized by computer.	Driver issue (Windows), faulty USB cable/port.	Reinstall Windows ASIO driver. Try a different USB port or cable. Restart computer.
High latency (delay) during recording.	Buffer size too high in DAW, incorrect driver (Windows).	Reduce buffer size in your DAW's audio settings. Ensure ASIO driver is installed and selected on Windows.

7. SPECIFICATIONS

Model Number	K-MPST-R2
Connectivity	USB, XLR, TRS, OTG
Inputs	1 x XLR/TRS Combo, 1 x TRS (Line/Instrument)
Outputs	2 x TRS Monitor, 1 x 3.5mm Headphone, 1 x 3.5mm Phone Out
Phantom Power	+48V (USB Bus Powered)
Audio Resolution	24-bit / 96kHz
Compatible Operating Systems	Windows (ASIO driver required), macOS (Class-compliant)
Compatible Devices	Microphone, Personal Computer, Smartphone, Speaker
Item Weight	1 kg
Package Dimensions	12 x 12 x 4.7 cm
Country of Origin	China

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Midiplus website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for any warranty claims.