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› Karлак AI-4 Compact 4-Channel Digital Audio Mixer User Manual

## Karлак AI-4

# Karлак AI-4 Compact 4-Channel Digital Audio Mixer User Manual

## 1. INTRODUCTION

### 1.1 Product Overview

This manual provides detailed instructions for the setup, operation, and maintenance of your Karлак AI-4 Compact 4-Channel Digital Audio Mixer. Please read this manual thoroughly before use to ensure optimal performance and longevity of your device. The Karлак AI-4 is designed for home music recording, webcasting, karaoke, and network singing applications, offering a compact solution with essential mixing functionalities.



Figure 1.1: Karlak AI-4 Compact 4-Channel Digital Audio Mixer

## 2. IMPORTANT SAFETY INSTRUCTIONS

- **Power Source:** Use only the provided power adapter. Ensure the power supply voltage matches the requirements specified on the device.
- **Moisture:** Do not expose this device to rain, moisture, or any liquids. Avoid placing objects filled with liquids on the device.

- **Ventilation:** Ensure proper ventilation. Do not block any ventilation openings.
- **Heat:** Keep the device away from heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Cleaning:** Unplug the device from the power outlet before cleaning. Use a dry, soft cloth for cleaning.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **USB Recording:** This product supports USB disk recording functionality only. It does not support computer recording software or online editing.

### 3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact your retailer.

- 1 x Karlak AI-4 Mixing Console
- 1 x Power Plug
- 1 x Power Cable
- 1 x User Manual (English)



Figure 3.1: Package Contents

## 4. PRODUCT FEATURES

The Karlak AI-4 Compact 4-Channel Digital Audio Mixer offers the following key features:

- Two MIC/LINE (TRS & XLR 2-in-1) mono input jacks for connecting microphones or musical instruments.
- Two types (RCA & TRS) of stereo input jacks for connecting line-level instruments such as electronic keyboards and other audio equipment.
- Two RCA outputs (L & R) and two TRS stereo outputs (L & R) for connecting to speakers or amplifiers.
- One 3.5mm headphone output for connecting headphones.
- Compact 4-channel mixer with built-in reverb effect.
- DC 5V micro USB power supply, allowing power from a power adapter, power bank, or computer.
- Built-in +48V phantom power for condenser microphones.
- USB/TF card jack for MP3 input and Bluetooth (BT) connection with smartphones.
- GAIN, HIGH (treble tone), LOW (bass tone), and PEAK control knobs for sound modulation.
- Effect access buttons and ST/USB input signal switch button for quick operation.

## 5. COMPONENT IDENTIFICATION

Familiarize yourself with the various controls and connections on your Karlak AI-4 mixer.

# SUPERIOR SOUND QUALITY



Figure 5.1: Front Panel Overview



Figure 5.2: Channel Control Section

1. **MIC/LINE Inputs (1-2):** Combo XLR/TRS jacks for connecting microphones or line-level instruments.
2. **+48V Phantom Power Switch:** Activates +48V phantom power for condenser microphones on inputs 1 and 2.
3. **GAIN Knobs:** Adjusts the input sensitivity for each channel.
4. **HIGH Knobs:** Adjusts the treble (high frequency) level for each channel.
5. **LOW Knobs:** Adjusts the bass (low frequency) level for each channel.
6. **EFF Knobs:** Controls the amount of effect (reverb) applied to each channel.
7. **PEAK Indicators:** Lights up when the input signal is too high, indicating potential clipping.
8. **USB/TF Card Input:** Port for USB flash drives or TF (microSD) cards for MP3 playback.
9. **MP3 Digital Player Controls:** Buttons for Play/Pause, Next Track, Previous Track, and Mode selection (USB/TF/Bluetooth).
10. **DELAY Knob:** Adjusts the delay time of the reverb effect.
11. **REPEAT Knob:** Adjusts the number of repeats for the reverb effect.
12. **CLIP/SIG/POWER Indicators:** Displays signal presence (SIG), clipping (CLIP), and power status (POWER).
13. **Headphone Output:** 3.5mm jack for connecting headphones.
14. **PHONES Knob:** Adjusts the volume level for the headphone output.
15. **MAIN Output (L/R):** TRS jacks for connecting to main speakers or an amplifier.
16. **REC Output (L/R):** RCA jacks for connecting to a recording device.
17. **ST/USB Input Signal Switch:** Selects between stereo line input and USB/MP3 player input for channels 3/4.
18. **Stereo Input Jacks (RCA & TRS):** Inputs for stereo line-level audio sources.

## 6. SETUP GUIDE

Follow these steps to set up your Karlak AI-4 mixer.



Figure 6.1: Connection Diagram

## 6.1 Power Connection

1. Connect the provided power cable to the DC 5V micro USB port on the mixer.
2. Plug the power adapter into a suitable electrical outlet. The POWER indicator will illuminate.
3. Alternatively, the mixer can be powered by a power bank or a computer's USB port using a compatible USB cable.

## 6.2 Connecting Microphones and Instruments

1. For microphones or instruments with XLR or 1/4" TRS connectors, use the MIC/LINE inputs (1-2).
2. If using a condenser microphone requiring phantom power, ensure the microphone is connected, then activate

the **+48V Phantom Power Switch**.

3. For line-level stereo sources (e.g., keyboards, media players), use the RCA or TRS stereo input jacks.

### 6.3 Connecting Output Devices

1. Connect your main speakers or amplifier to the **MAIN Output (L/R)** using TRS cables.
2. For recording, connect a recording device to the **REC Output (L/R)** using RCA cables.
3. Plug your headphones into the **Headphone Output** (3.5mm jack) for monitoring.

### 6.4 Connecting to a Computer/Smartphone (USB/BT)

- **USB/TF Card:** Insert a USB flash drive or TF card containing MP3 audio files into the respective slot.
- **Bluetooth:** On the MP3 Digital Player, press the **MODE** button until 'BT' is displayed. On your smartphone or Bluetooth-enabled device, search for 'BT' and pair with the mixer.

## 7. OPERATING INSTRUCTIONS

### 7.1 Basic Operation

1. Before powering on, ensure all **GAIN** and volume knobs are set to their minimum positions.
2. Power on the mixer.
3. Gradually increase the **GAIN** knob for each active input channel until the **SIG** indicator lights consistently, and the **PEAK** indicator flashes only occasionally during the loudest parts of the signal.
4. Adjust the **MAIN** volume knob to achieve the desired output level for your speakers.
5. Adjust the **PHONES** knob for comfortable headphone monitoring.

### 7.2 Adjusting Input Levels and Tone

- **GAIN:** Use this knob to set the initial input level for each microphone or instrument. Proper gain staging is crucial to avoid distortion.
- **HIGH:** Turn clockwise to boost treble frequencies, counter-clockwise to cut them.
- **LOW:** Turn clockwise to boost bass frequencies, counter-clockwise to cut them.

### 7.3 Using Phantom Power

If you are using a condenser microphone, press the **+48V Phantom Power Switch**. The corresponding indicator will light up. Ensure dynamic microphones or other devices not requiring phantom power are not connected when phantom power is active, or ensure they are compatible.

### 7.4 MP3 Player Operation (USB/TF Card, Bluetooth)

- **USB/TF Card:** Insert your storage device. Use the Play/Pause, Next, and Previous buttons to control playback.
- **Bluetooth:** After pairing (see Section 6.4), use your smartphone to control playback. The mixer's MP3 player controls may also function for basic playback control.
- **Input Selection:** Use the **ST/USB Input Signal Switch** to route the audio from the MP3 player (USB/TF/BT) to channels 3/4.

### 7.5 Applying Effects (DELAY, REPEAT)

The mixer features a built-in reverb effect.

- Use the **EFF knobs** on individual channels to send a portion of that channel's signal to the effect processor.
- Adjust the **DELAY knob** to control the time between the original sound and its first echo.
- Adjust the **REPEAT knob** to control how many times the echo repeats.

## 8. MAINTENANCE

### 8.1 Cleaning

To clean the mixer, disconnect it from the power source. Use a soft, dry cloth to wipe the surface. Do not use abrasive cleaners, waxes, or solvents, as they may damage the finish.

### 8.2 Storage

When not in use for extended periods, store the mixer in a cool, dry place, away from direct sunlight and extreme temperatures. Protect it from dust and moisture.

## 9. TROUBLESHOOTING

If you encounter issues with your Karlak AI-4 mixer, refer to the following common problems and solutions.

- **No Power:** Ensure the power cable is securely connected and the power adapter is plugged into a working outlet. Try a different power source or USB cable.
- **No Sound Output:**
  - Check all cable connections to inputs, outputs, and speakers.
  - Verify that GAIN knobs for active channels and the MAIN volume knob are turned up.
  - Ensure the connected speakers or amplifier are powered on and functioning correctly.
  - Check headphone volume (PHONES knob).
- **Microphone Not Working:**
  - Ensure the microphone is properly connected to a MIC/LINE input.
  - If using a condenser microphone, verify that +48V phantom power is activated.
  - Check the microphone's cable and functionality with another device if possible.
- **USB/Bluetooth Playback Issues:**
  - For USB/TF, ensure the media contains compatible MP3 files.
  - For Bluetooth, ensure the mixer is in BT mode and properly paired with your device.
  - Verify the ST/USB input signal switch is correctly set.
- **Distorted Audio:**
  - Reduce the GAIN knob for the affected channel if the PEAK indicator is constantly lit.
  - Lower the MAIN volume knob.
  - Check the input level of the source device.

## 10. TECHNICAL SPECIFICATIONS

Specification	Value
Material	Plastic
Power Supply	DC 5V
Power Adapter Input	100-240V
Item Size	16 x 18.5 x 5 cm (6.3 x 7.3 x 2 inches)
Item Weight	445g (1.48 pounds)
Product Dimensions	9.49 x 8.7 x 2.99 inches
Manufacturer	Karlak
First Available	October 24, 2023

## 11. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your proof of purchase for warranty claims.

