SONICAKE QAI-100

SONICAKE Audio Mixer QAI-100 Instruction Manual

Model: QAI-100

Introduction Product Overview Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This manual provides detailed instructions for the SONICAKE QAI-100 Audio Mixer. The QAI-100 is a portable 2-channel USB mini sound board console designed for various audio applications, including music recording, live streaming, podcasting, and karaoke. It features a built-in sound card and 48V phantom power, offering stable performance and high-accuracy audio resolution.

2. Product Overview

The SONICAKE QAI-100 is a compact and versatile audio mixer. Its design prioritizes portability and ease of use, making it suitable for both studio and on-the-go applications.

Key Features:

- **Stable Performance:** Compatible with mainstream audio software, offering fast transmission, low power consumption, and stable signal.
- **High Accuracy:** Equipped with 16-bit, 48KHz audio resolution for professional sound quality.
- **USB Power Supply:** Connects to a computer via USB for both power and audio transmission.
- **Portable Design:** Compact structure for easy transport.
- **48V Phantom Power:** Switchable 48V power supply for condenser microphones.
- **Wide Application:** Ideal for music recording, singing, guitar/bass playing, live streaming, and podcasting.

Component Identification:

Familiarize yourself with the various inputs, outputs, and controls on your QAI-100 mixer.



Figure 2.1: Device Connection Method. This image illustrates the various connection points on the QAI-100 mixer, including inputs for microphones, electronic musical instruments, and guitars, as well as outputs for speakers and headphones. It also shows the USB connection to a laptop.



Figure 2.2: Professional Mixing Console Controls. This image highlights the control panel of the QAI-100, showing the level knobs, mono/stereo switch, REC button, USB Audio controls, and indicators for +48V phantom power and signal levels. It also includes a graph illustrating fine and smooth sound performance.

3. Setup

Follow these steps to set up your SONICAKE QAI-100 Audio Mixer.

3.1 Connecting to a Computer

1. Ensure your computer is running MAC OS or Windows 7 or above.
2. Connect the QAI-100 to your computer using the provided USB cable. The mixer is driver-free and should be recognized automatically.
3. The USB connection provides power to the mixer and enables audio data transfer.



Figure 3.1: USB Connection to Computer. This image shows the QAI-100 mixer connected to a laptop via a USB cable, illustrating its driver-free compatibility with Mac and Windows 7 or above operating systems.

3.2 Connecting Microphones and Instruments

- **Microphones:** Connect dynamic or condenser microphones to the MIC/LINE inputs (Input 1 or Input 2) using XLR cables.
- **Phantom Power:** For condenser microphones requiring 48V phantom power, activate the +48V switch on the mixer. An indicator light will confirm activation.
- **Instruments:** Connect instruments like guitars or basses to the HI-Z input for optimal impedance matching.
- **Electronic Musical Instruments:** Connect other electronic instruments to the MIC/LINE inputs using 1/4" TRS cables.



Figure 3.2: Switchable 48V Power Supply. This image visually represents the 48V phantom power feature, essential for powering condenser microphones, ensuring clear audio capture.

3.3 Connecting Output Devices

- **Speakers:** Connect your studio monitors or PA system to the MAIN OUTPUTS using 1/4" TS cables.
- **Headphones:** Plug your headphones into the PHONES jack for monitoring.

4. Operating Instructions

This section details the operation of the QAI-100 mixer's controls.

4.1 Input Level Adjustment

- Use the **LEVEL 1** and **LEVEL 2** knobs to adjust the input gain for each channel.
- Monitor the **PEAK** indicators. If they light up frequently, reduce the input level to prevent clipping and distortion.
- The **SIG** indicators show when an input signal is present.

4.2 Mono/Stereo Switching

- The QAI-100 features two mono channels (MIC/LINE) that can be switched to one stereo channel. Use the **MONO & STEREO** switch to select the desired input configuration.

4.3 Main Output and Headphone Monitoring

- Adjust the overall output volume using the **MAIN** knob.
- Control the headphone volume with the **PHONES** knob.

4.4 Recording and USB Audio

- The **REC** button controls the recording function.
- The **USB AUDIO** section manages the audio signal sent to and received from your computer. Ensure your computer's audio settings are configured to use the QAI-100 as the input/output device.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your QAI-100 mixer.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the mixer. Avoid abrasive cleaners or solvents.

- **Storage:** Store the mixer in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the mixer with care to prevent physical damage. Avoid dropping or subjecting it to strong impacts.
- **Connections:** Periodically check all cable connections for wear and tear. Ensure cables are securely plugged in during use.

6. Troubleshooting

If you encounter issues with your QAI-100 mixer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound output from speakers/headphones.	Incorrect cable connections. Volume knobs (MAIN, PHONES) turned down. Computer audio settings not configured for QAI-100.	Verify all audio cables are correctly connected. Increase MAIN and PHONES volume. Check your computer's sound settings to ensure QAI-100 is selected as the output device.
No input signal from microphone/instrument.	Input LEVEL knob too low. +48V phantom power not activated for condenser mics. Faulty cable or microphone/instrument.	Increase the corresponding LEVEL knob. Activate the +48V switch if using a condenser microphone. Test with a different cable or input device to isolate the issue.
Distorted or noisy audio.	Input level too high (PEAK indicator flashing). Ground loop or electrical interference. Headphone volume too high (can cause noise in headphones, but not recordings).	Reduce the input LEVEL knob until the PEAK indicator no longer flashes. Ensure all equipment is properly grounded. Consider using a powered USB hub if experiencing power-related noise. Reduce headphone volume.
Mixer powers on and off repeatedly.	Insufficient power from the USB port or hub.	Connect the mixer to a powered USB hub or a different USB port on your computer that provides sufficient power.

7. Specifications

- **Model Number:** QAI-100
- **Item Weight:** 10.9 ounces (0.31 Kilograms)
- **Product Dimensions:** 5.12 x 5.91 x 1.97 inches
- **Hardware Interface:** USB
- **Power Source:** Corded Electric (USB powered)
- **Voltage:** 48 Volts (for phantom power)
- **Number of Channels:** 2
- **Connectivity Technology:** USB
- **Audio Resolution:** 16 BIT, 48KHZ



Figure 7.1: QAI-100 Size. This image provides a visual representation of the mixer's dimensions, highlighting its compact and portable nature with measurements in both centimeters and inches.

8. Warranty and Support

For warranty information and technical support, please refer to the official SONICAKE website or contact their customer service. Keep your purchase receipt as proof of purchase for any warranty claims.
Online Support: Visit the SONICAKE Store on Amazon for additional product information and support resources.

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