TEYUN Q24

TEYUN Q24 Professional Audio Interface User Manual

Model: Q24

1. INTRODUCTION

The TEYUN Q24 is a professional 2-input, 4-output USB audio interface designed for high-quality audio recording and playback. It features 24-bit/192KHz audio resolution, dual microphone/line inputs, RCA input/output, and a headphone output for ultra-low-latency monitoring. This manual provides essential information for setting up, operating, and maintaining your Q24 audio interface.

2. PACKAGE CONTENTS

- TEYUN Q24 Audio Interface
- USB Cable
- User Manual

3. PRODUCT OVERVIEW

Familiarize yourself with the various inputs, outputs, and controls on your TEYUN Q24 audio interface.
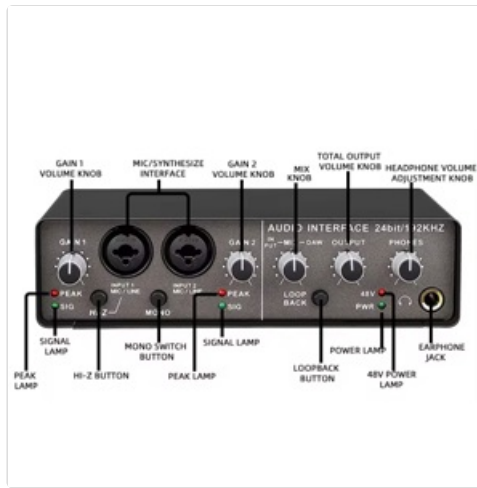
Front Panel Controls

Image 3.1: Front panel diagram of the TEYUN Q24 audio interface, illustrating the location and function of each control knob and button. This includes Gain 1 and Gain 2 volume knobs, Input 1 and Input 2 MIC/LINE combo jacks, HI-Z button, MONO switch, Peak and Signal lamps for each input, MIX-DAW output knob, Loop Back button, 48V Power button and lamp, Total Output volume knob, Headphone volume adjustment knob, and the Earphone Jack.

- **GAIN 1/GAIN 2 Knobs:** Adjust input gain for Input 1 and Input 2.
- **INPUT 1/INPUT 2 MIC/LINE:** Combo XLR/TRS jacks for connecting microphones or line-level instruments.
- **HI-Z Button:** Engages high impedance mode for direct instrument input (e.g., guitar).
- **MONO Switch:** Combines stereo input into a mono signal.
- **PEAK/SIG Lamps:** Indicate signal presence (SIG) and signal clipping (PEAK).
- **MIX-DAW Output Knob:** Balances the monitoring mix between direct input signal and DAW playback.
- **LOOP BACK Button:** Enables internal recording of the output mix.
- **48V PWR Button:** Activates +48V phantom power for condenser microphones.
- **OUTPUT Knob:** Adjusts the overall output volume to your main monitors.
- **PHONES Knob:** Adjusts the volume for the headphone output.
- **PHONES Jack:** 1/4-inch stereo jack for connecting headphones.
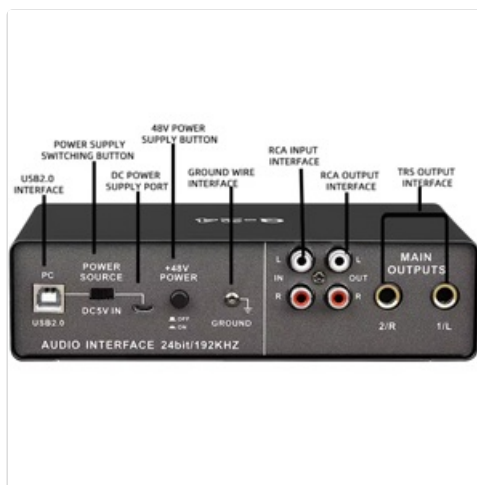
Rear Panel Connections

Image 3.2: Rear panel diagram of the TEYUN Q24 audio interface, showing all connection ports. This includes the USB 2.0 interface, PC power source switch, DC 5V IN port, +48V power supply button, Ground wire interface, RCA input and output interfaces, and TRS main output interfaces (1/L and 2/R).

- **USB 2.0 Interface:** Connects the interface to your computer for data and power.
- **POWER SOURCE Switch:** Selects between PC USB power or external DC 5V power.

- **DC 5V IN Port:** For connecting an optional external 5V DC power adapter.
- **+48V POWER Button:** Activates phantom power for condenser microphones.
- **GROUND Wire Interface:** For connecting a ground wire to reduce hum or noise.
- **RCA IN/OUT Interfaces:** Stereo RCA inputs and outputs for connecting consumer audio devices or additional sound sources.
- **MAIN OUTPUTS (1/L, 2/R):** 1/4-inch TRS jacks for connecting to studio monitors or a PA system.

4. SETUP

Follow these steps to set up your TEYUN Q24 audio interface.

4.1 Connecting to a Computer

1. Connect the supplied USB cable from the Q24's USB 2.0 port to an available USB port on your computer.
2. The Q24 is a plug-and-play device and typically does not require complex driver installations for basic functionality. Your operating system (Windows/macOS) should automatically recognize it.
3. For optimal performance or if experiencing issues, check the official TEYUN website for any specific drivers or firmware updates for the Q24 model.

4.2 Powering the Device

The Q24 can be powered via USB from your computer. If additional power is required or preferred, connect an optional 5V DC power adapter to the DC 5V IN port and set the POWER SOURCE switch accordingly.

4.3 Connecting Microphones and Instruments

Image 4.1: Connection diagram illustrating how to connect a guitar, synthesizer, microphone, and headphones to the TEYUN Q24 audio interface. The guitar and synthesizer connect to Input 1 and Input 2 respectively, the microphone connects to Input 2, and headphones connect to the Phones jack.

- **Microphones:** Connect XLR microphones to the MIC/LINE combo jacks (Input 1 or Input 2). If using a condenser microphone, press the **48V PWR** button to supply phantom power.
- **Instruments:** Connect instruments like guitars or basses to the MIC/LINE combo jacks. For high-impedance instruments, press the **HI-Z** button for the corresponding input.
- **Line-Level Devices:** Connect synthesizers, drum machines, or other line-level devices using TRS cables to the MIC/LINE combo jacks or RCA cables to the RCA IN ports.

4.4 Connecting Output Devices

- **Studio Monitors:** Connect your studio monitors to the **MAIN OUTPUTS (1/L, 2/R)** using 1/4-inch TRS cables.
- **Headphones:** Connect your headphones to the **PHONES** jack.
- **External Recorders/Mixers:** Use the RCA OUT ports to send audio to other devices.

4.5 Software Requirements

While the Q24 does not require specific drivers for basic operation, recording audio necessitates the use of Digital Audio Workstation (DAW) software on your computer. Popular DAWs include Audacity, GarageBand, Ableton Live, Logic Pro, Pro Tools, and many others. Ensure your chosen software is compatible with your operating system and supports USB audio interfaces.

5. OPERATING INSTRUCTIONS

This section details the operation of your TEYUN Q24 audio interface for various applications.

5.1 Input Level Adjustment

1. Connect your microphone or instrument to the desired input (Input 1 or Input 2).
2. Slowly turn the corresponding **GAIN** knob clockwise while speaking into the microphone or playing your instrument.
3. Observe the **SIG** (Signal) and **PEAK** lamps. The SIG lamp should illuminate consistently, indicating a healthy signal.
4. Adjust the GAIN so that the PEAK lamp only flashes occasionally during the loudest parts of your performance. Constant illumination of the PEAK lamp indicates clipping, which will result in distorted audio.

5.2 Monitoring

The Q24 offers ultra-low-latency monitoring through its headphone output.

- Connect your headphones to the **PHONES** jack.
- Adjust the **PHONES** knob to set your desired headphone volume.
- Use the **MIX-DAW** knob to blend between the direct input signal (MIX) and the audio playback from your computer (DAW). This allows you to monitor your live input without delay while also hearing your recorded tracks.

5.3 Using Phantom Power (+48V)

Condenser microphones require +48V phantom power to operate. To activate:

1. Ensure your condenser microphone is connected to an input.
2. Press the **48V PWR** button on the front panel. The corresponding lamp will illuminate.
3. Always connect or disconnect condenser microphones only when phantom power is off to prevent potential damage to the microphone or interface.

5.4 Loop Back Function

The **LOOP BACK** button allows you to record the combined output of your interface (inputs + computer playback) directly back into your computer. This is useful for live streaming, podcasting, or creating content where you need to capture both your microphone and computer audio simultaneously.

5.5 Recording with a DAW

1. Open your preferred DAW software on your computer.
2. In your DAW's audio settings or preferences, select the TEYUN Q24 as your audio input and output device.
3. Create new audio tracks and assign the Q24's inputs (Input 1, Input 2, or stereo mix) to these tracks.
4. Arm the tracks for recording and adjust input levels on the Q24 as described in Section 5.1.
5. Begin recording in your DAW.

5.6 Typical Usage Scenarios

Image 5.1: This image displays four common applications for the TEYUN Q24 audio interface: music recording in a studio setting, network broadcasting with a microphone and guitar, dedicated vocal recording, and ASMR production using a specialized microphone.

- **Music Recording:** Capture vocals and instruments with high fidelity.
- **Network Broadcast/Podcasting:** Integrate microphones and computer audio for live streams or podcasts.
- **Vocal Recording:** Achieve clear and detailed vocal tracks.
- **ASMR Production:** Record subtle sounds with precision.

6. MAINTENANCE

Proper care and maintenance will ensure the longevity and optimal performance of your TEYUN Q24 audio interface.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or solvents, as they may damage the finish or internal components.
- **Storage:** Store the interface in a cool, dry place away from direct sunlight, extreme temperatures, and excessive dust.
- **Handling:** Avoid dropping or subjecting the device to strong impacts.
- **Connections:** Always handle cables by the connector, not the cable itself, when plugging or unplugging

to prevent damage to the ports.

7. TROUBLESHOOTING

If you encounter issues with your TEYUN Q24, refer to the following troubleshooting tips.

- **No Power/Device Not Recognized:**
  - Ensure the USB cable is securely connected to both the interface and your computer.
  - Try a different USB port on your computer.
  - If using an external power adapter, ensure it is correctly connected and the POWER SOURCE switch is set to DC 5V IN.
  - Restart your computer.

- **No Sound Input/Output:**
  - Check all cable connections (microphones, instruments, monitors, headphones).
  - Verify that the **GAIN** knobs are turned up for inputs and the **OUTPUT** and **PHONES** knobs are turned up for outputs.
  - Confirm that the TEYUN Q24 is selected as the input/output device in your computer's sound settings and your DAW software.
  - If using a condenser microphone, ensure **48V PWR** is activated.
  - Check the **MIX-DAW** knob position; adjust it to hear your input or DAW playback.

- **Low Microphone Levels (especially with phantom power mics):**
  - Ensure the **GAIN** knob for the microphone input is sufficiently increased.
  - Verify the microphone is functioning correctly and is connected properly.
  - Some microphones may require higher gain settings than others.

- **Distorted Audio:**
  - Reduce the **GAIN** knob for the input if the **PEAK** lamp is constantly lit.
  - Check the output volume levels on the interface and your monitors/headphones to ensure they are not overdriven.
  - Ensure your DAW's input levels are not clipping.

- **Latency Issues:**
  - Use the direct monitoring feature (adjust **MIX-DAW** knob towards MIX) to hear your input with minimal latency.
  - In your DAW, reduce the buffer size (sample rate) in the audio settings. Note that very low buffer sizes may strain your computer's CPU.
  - Ensure your computer meets the minimum system requirements for your DAW and operating system.

- **Difficulty with Driver Installation (if applicable):**
  - While the Q24 is generally driver-free, some systems or specific applications might benefit from dedicated drivers. Check the TEYUN support website for any available drivers.
  - Ensure your operating system is up to date.

8. SPECIFICATIONS

Feature	Specification
Model Number	Q24
Audio Resolution	24-bit/192KHz
Inputs	2 x MIC/LINE Combo (XLR/TRS), Stereo RCA In
Outputs	2 x 1/4" TRS Main Outputs, Stereo RCA Out, 1 x 1/4" Headphone Output
Phantom Power	+48V (switchable)
Connectivity	USB 2.0
Power Source	USB Bus Power or DC 5V External Adapter
Compatible Devices	Microphone, Speaker
Supported Software	Audacity (and other major DAWs)
Operating System	macOS (and Windows compatible)
Item Weight	10.6 ounces (approx. 300g)
Product Dimensions	5.51 x 9.06 x 2.36 inches (approx. 14 x 23 x 6 cm)

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official TEYUN website. Keep your proof of purchase for any warranty claims.

Online Resources:

- For the latest drivers, firmware, and support articles, visit the TEYUN official website.
- For product registration or to contact customer service, refer to the contact information provided by the seller or manufacturer.