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TKLBLS Z4-4 Channel

TKLBLS Z4-4 Channel Professional Audio Mixer User Manual

Model: Z4-4 Channel | Brand: TKLBLS

1. Introduction

This manual provides detailed instructions for the operation and maintenance of your TKLBLS Z4-4 Channel Professional Audio Mixer. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

2. Safety Instructions

- Ensure the power supply voltage matches the requirements specified on the device.
- Do not expose the mixer to rain or moisture to avoid electric shock.
- Do not open the casing. Refer all servicing to qualified personnel.
- Avoid placing the device near heat sources or in direct sunlight.
- Disconnect the power cable during lightning storms or when unused for long periods.
- Handle with care as the casing is made of plastic.

3. Product Overview

The TKLBLS Z4-4 Channel Professional Audio Mixer is a versatile sound mixing console designed for various audio applications, including DJ mixing, live streaming, and recording. It features advanced functionalities such as 99 DSP effects, 48V phantom power, USB interface, and Bluetooth 5.0 connectivity.

Key Features:

- **+48V Phantom Power:** Equipped with a 48V phantom power switch to support professional condenser microphones.
- **Signal Attenuation (PAD -26dB) & High Pass Filter (HPF 80Hz):**Reduces high-volume input signals by up to -26dB to prevent distortion and eliminates low-frequency noise for clearer audio.

- **Mobile/Computer Live Streaming:** Supports OTG converter connectivity for mobile phones and direct USB connection for computers, enabling easy recording and live streaming.
- **Stereo Line and Microphone Inputs:** Two XLR input jacks for microphones, supporting balanced and unbalanced signals, with 3-band equalization adjustments for precise sound control.
- **99 DSP Reverb Effects:** Features 99 digital signal processing effects, including reverb and delay, for audio enhancement.
- **USB/Flash/MP3 Player Compatibility:** Includes a USB sound card and audio interface for easy recording and connection to MAC or PC, supporting various digital audio files and USB device recording.
- **Bluetooth 5.0 Wireless Connection:** Allows wireless music streaming from pads, mobile phones, tablets, and other Bluetooth devices within a 15-foot range for background music or accompaniment.

Component Identification:

Refer to the diagram below for an overview of the mixer's controls and connections.



Figure 3.1: Labeled diagram of the TKLBLS Z4-4 Channel Audio Mixer control panel and dimensions.

- **MIC INPUT:** XLR/TRS combo jacks for microphone and line inputs.
- **GAIN Knob:** Adjusts the input sensitivity for each channel.
- **HIGH Knob:** Adjusts the high-frequency equalization for each channel.
- **MID Knob:** Adjusts the mid-frequency equalization for each channel.
- **LOW Knob:** Adjusts the low-frequency equalization for each channel.
- **FX Knob:** Controls the send level to the internal effects processor.
- **LEVEL Knob:** Adjusts the output level for each channel.
- **AUX OUT:** Auxiliary output for sending audio to external devices.
- **USB Interface:** For connecting to computers or USB storage devices.
- **48V PHANTOM Switch:** Activates +48V phantom power for condenser microphones.
- **EFFECTS Section:** Controls for selecting and adjusting DSP effects.
- **VOLUME FADER:** Main output volume control.
- **POWER INTERFACE:** Connection for the power adapter.
- **POWER SWITCH:** Turns the mixer on or off.

4. Setup

4.1 Power Connection

1. Connect the provided power adapter to the **POWER INTERFACE** on the rear of the mixer.
2. Plug the power adapter into a suitable electrical outlet.
3. Ensure the **POWER SWITCH** is in the OFF position before connecting or disconnecting any cables.



Figure 4.1: Diagram showing the power connection and various input/output connections of the mixer.

4.2 Connecting Microphones and Instruments

1. For dynamic microphones or line-level instruments, connect them to the**MIC/LINE** input jacks using XLR or 1/4" TRS cables.
2. For condenser microphones requiring phantom power, connect them to the**MIC/LINE** input jacks. Activate the **+48V PHANTOM** switch only after all connections are made and the mixer is powered on. Ensure the volume is turned down before activating phantom power.



Figure 4.2: Close-up of the 48V Phantom Power switch and its application for condenser microphones.

4.3 Connecting to a Computer/Mobile Device

1. **For Computer Connection (USB):** Connect a USB cable from the mixer's USB port to your computer. The mixer will function as an audio interface, allowing recording and playback.
2. **For Mobile Phone Connection (OTG):** Use an OTG adapter and a USB cable to connect your mobile phone to the mixer's USB port. This enables direct recording and live streaming from your phone.



Figure 4.3: Illustration of connecting the mixer to a PC via USB and to a mobile phone via OTG adapter for recording and live streaming.

5. Operating Instructions

5.1 Basic Operation

1. **Power On:** After all connections are made, turn on the **POWER SWITCH**.
2. **Adjusting Input Gain:** Use the **GAIN** knob for each channel to set the input level. Adjust until the PEAK indicator flashes only occasionally during the loudest parts of the signal.
3. **Equalization:** Use the **HIGH**, **MID**, and **LOW** knobs to shape the tone of each channel.
4. **Channel Level:** Adjust the **LEVEL** knob for each channel to control its volume in the mix.
5. **Main Output:** Use the **VOLUME FADER** to control the overall output volume.

5.2 Using DSP Effects

The mixer features 99 built-in DSP effects. To use them:

1. Turn the **PROGRAM** knob in the **EFFECTS** section to select an effect number (00-99).
2. Press the **PROGRAM** knob to confirm the selection.
3. Use the **FX** knob on each channel to send the desired amount of signal to the effects processor.
4. Adjust the **PARAMETER** knob in the **EFFECTS** section to fine-tune the selected effect.



Figure 5.1: Detailed view of the 99 DSP effects available on the mixer, including Reverb, Delay, Ping-Pong Delay, Flanger, Echo, Chorus+Echo, Auto Wah+Echo, Voice Changer, and Tremolo.

5.3 Bluetooth Connectivity

1. Activate Bluetooth on your mobile device (phone, tablet, etc.).
2. On the mixer, select the Bluetooth input mode (usually indicated by "BLUE" on the display).
3. Search for "TKLBLS Z4" or a similar device name on your mobile device and pair.
4. Once connected, you can stream audio wirelessly to the mixer.



Figure 5.2: Illustration of wireless Bluetooth connection for audio streaming to the mixer.

5.4 USB Playback and Recording

1. **USB Playback:** Insert a USB flash drive containing MP3 or other compatible audio files into the USB port. Use the mixer's controls to navigate and play tracks.
2. **USB Recording:** The mixer can record audio directly to a connected USB device or function as an audio interface for computer recording.



Figure 5.3: The mixer connected to a laptop for high-quality audio recording and processing.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the mixer's surface. Do not use liquid cleaners or solvents.
- **Storage:** Store the mixer in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Ensure all cables are neatly organized and not under strain to prevent damage to connectors and ports.

7. Troubleshooting

Problem	Possible Cause	Solution
No sound output.	Power not connected or switched on. Volume faders/knobs turned down. Incorrect input/output connections. Faulty cables.	Check power connection and switch. Increase main volume fader and channel level knobs. Verify all audio cables are correctly connected. Test with different cables.
Distorted audio.	Input gain too high. Output level too high. PAD function not engaged for high-level inputs.	Reduce **GAIN** knob for the affected channel. Lower the **VOLUME FADER**. Engage the **PAD (-26dB)** switch for loud sources.
Condenser microphone not working.	+48V Phantom Power not activated. Faulty microphone or cable.	Ensure **+48V PHANTOM** switch is ON. Test with another condenser microphone or cable.

Problem	Possible Cause	Solution
Bluetooth connection issues.	Device not in pairing mode. Out of range. Interference.	Ensure mixer is in Bluetooth mode and device is discoverable. Move device closer to the mixer (within 15 feet). Reduce other wireless interference.

8. Specifications

Feature	Detail
Brand	TKLBLS
Model Number	Z4-4 Channel
Number of Channels	4
Connectivity Technology	USB, Bluetooth 5.0
Power Source	Wired Electric
Audio Input	XLR
Phantom Power	+48V
DSP Effects	99 (Reverb, Delay, etc.)
Signal Attenuation	PAD -26dB
High Pass Filter	80Hz
UPC	752619464321
Country of Origin	China

9. Warranty and Support

9.1 Warranty Information

This product comes with a**1-year warranty** from the date of purchase. The warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.
Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact your retailer or the manufacturer directly. Refer to the product packaging or the manufacturer's official website for contact details.

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