Yamnweo AMS-12

Yamnweo AMS-12 Professional 12-Channel Audio Mixer User Manual

Model: AMS-12

1. Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your Yamnweo AMS-12 Professional 12-Channel Audio Mixer. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage. The AMS-12 is designed for professional audio mixing applications, featuring 12 input channels, 99 DSP effects, dual 7-band equalization, Bluetooth connectivity, and USB recording capabilities.



Figure 1.1: Yamnweo AMS-12 Professional 12-Channel Audio Mixer. This image displays the full view of the mixer, highlighting its various input channels, control knobs, faders, and digital display.

2. Safety Instructions

To ensure safe operation and prolong the life of your mixer, please observe the following safety precautions:

- **Power Supply:** Use only the specified power adapter. Ensure the voltage matches your local power supply.
- **Water and Moisture:** Do not expose the mixer to water, rain, or excessive moisture. Avoid placing liquid containers near the unit.
- **Ventilation:** Ensure adequate ventilation around the mixer. Do not block ventilation openings.
- **Heat Sources:** Keep the mixer away from heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
- **Cleaning:** Disconnect power before cleaning. Use a dry, soft cloth. Do not use liquid cleaners or aerosols.
- **Servicing:** Do not attempt to service the mixer yourself. Refer all servicing to qualified service personnel.

3. Product Overview

The AMS-12 mixer is equipped with a comprehensive set of features for versatile audio control. Familiarize yourself with the layout and functions of each component.

3.1. Front Panel Layout



Figure 3.1: Detailed diagram of the AMS-12 mixer's front panel, indicating various controls and connection points. This image provides a clear visual guide to the mixer's interface.

3.2. Key Features

- **12 Input Channels:** Multiple inputs for microphones, instruments, and line-level devices.
- **99 DSP Effects:** Integrated digital signal processing with a wide range of effects.
- **Dual 7-Band EQ:** Graphic equalizers for precise frequency adjustments on main outputs.
- **Bluetooth Connectivity:** Wireless audio streaming from compatible devices.
- **USB Interface:** For direct recording and playback with computers or USB storage.
- **+48V Phantom Power:** Available on select channels for condenser microphones.
- **Individual Channel Mute:** Mute buttons with LED indicators for each channel.

4. Setup

Follow these steps to set up your AMS-12 mixer for initial use.

4.1. Power Connection

1. Ensure the mixer's power switch is in the OFF position.
2. Connect the provided power adapter to the mixer's power input.
3. Plug the power adapter into a suitable AC power outlet.

4.2. Input Connections

The AMS-12 offers various input options:

- **Microphones:** Connect microphones to the XLR or 1/4" TRS inputs on channels 1-8. For condenser microphones requiring phantom power, ensure the +48V button is activated for the respective channel.
- **Line-Level Devices:** Connect instruments (keyboards, guitars with preamps) or other line-level audio sources to the 1/4" TRS inputs.
- **Stereo Inputs (Channels 9/10, 11/12):** Use these for stereo sources like media players or synthesizers.



Figure 4.1: Close-up view of the input section, highlighting the +48V phantom power buttons for individual channels. This feature ensures compatibility with a wide range of microphones.

4.3. Output Connections

- **Main Output:** Connect your main speakers or power amplifier to the L/R MAIN OUT (XLR or 1/4" TRS) jacks.
- **Monitor Output:** Connect monitor speakers to the MONITOR OUT jacks.
- **Auxiliary Output:** Use the AUX OUT for sending a mix to external effects processors or additional monitors.
- **Headphones:** Connect headphones to the PHONES jack for personal monitoring.

5. Operating Instructions

This section details the operation of the AMS-12 mixer's various functions.

5.1. Basic Mixing

1. **Gain Adjustment:** Use the GAIN knob for each channel to set the input level. Adjust until the PEAK LED flashes only occasionally.
2. **Equalization (EQ):** Each channel features a 3-band EQ (HIGH, MID, LOW) to shape the tone of the input signal. Adjust these knobs to achieve the desired sound.

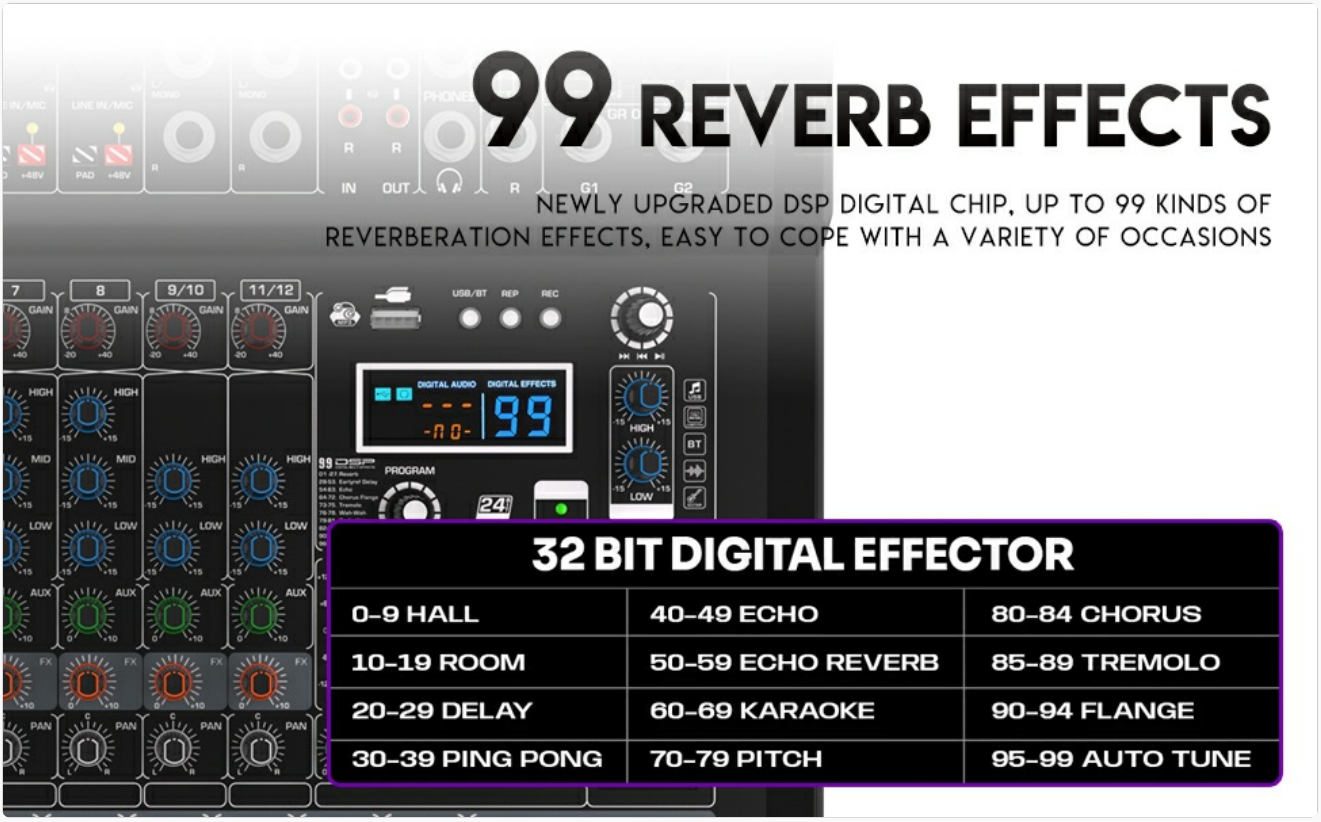


Figure 5.1: Illustration of the three-band equalization section for individual channels. This image demonstrates how to adjust high, mid, and low frequencies for optimal sound shaping.

3. **Auxiliary (AUX) Send:** The AUX knob sends a portion of the channel signal to the AUX output, typically for monitor mixes or external effects.
4. **Effects (FX) Send:** The FX knob sends a portion of the channel signal to the internal DSP effects processor.
5. **Pan Control:** The PAN knob adjusts the stereo position of the channel signal (left to right).
6. **Channel Fader:** Use the channel fader to control the overall volume of each input in the main mix.
7. **Mute Function:** Press the MUTE button to silence a channel. The LED indicator will illuminate when muted.

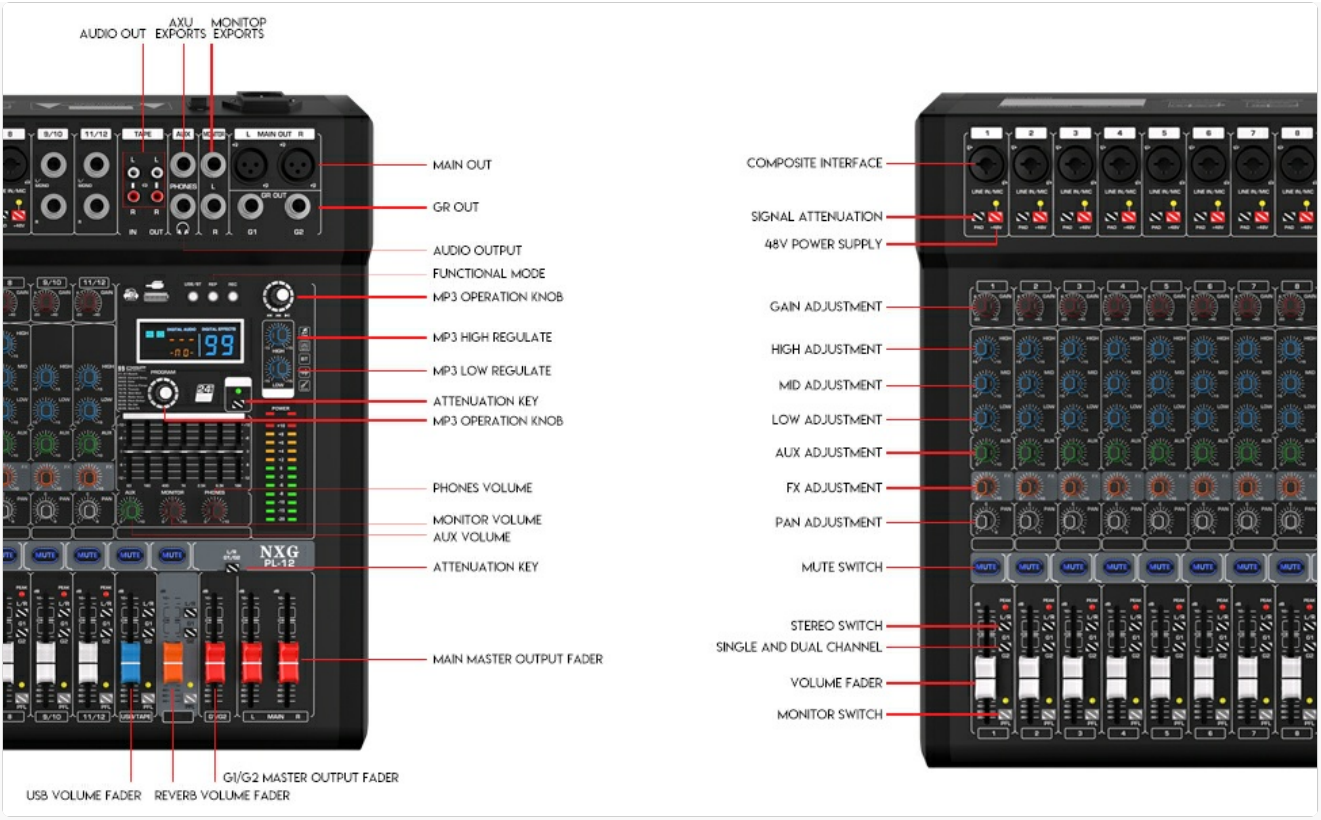


Figure 5.2: Close-up of the individual channel mute buttons, showing their LED indicators. This feature allows for quick silencing of channels, visible even in low-light conditions.

5.2. DSP Effects

The AMS-12 features 99 built-in digital effects.

1. **Selecting Effects:** Use the PROGRAM knob to scroll through the 99 available effects. The selected effect number will be displayed on the digital screen.
2. **Applying Effects:** Adjust the FX knob on individual channels to send signal to the effects processor. Use the main FX LEVEL fader to control the overall return level of the effects into the main mix.

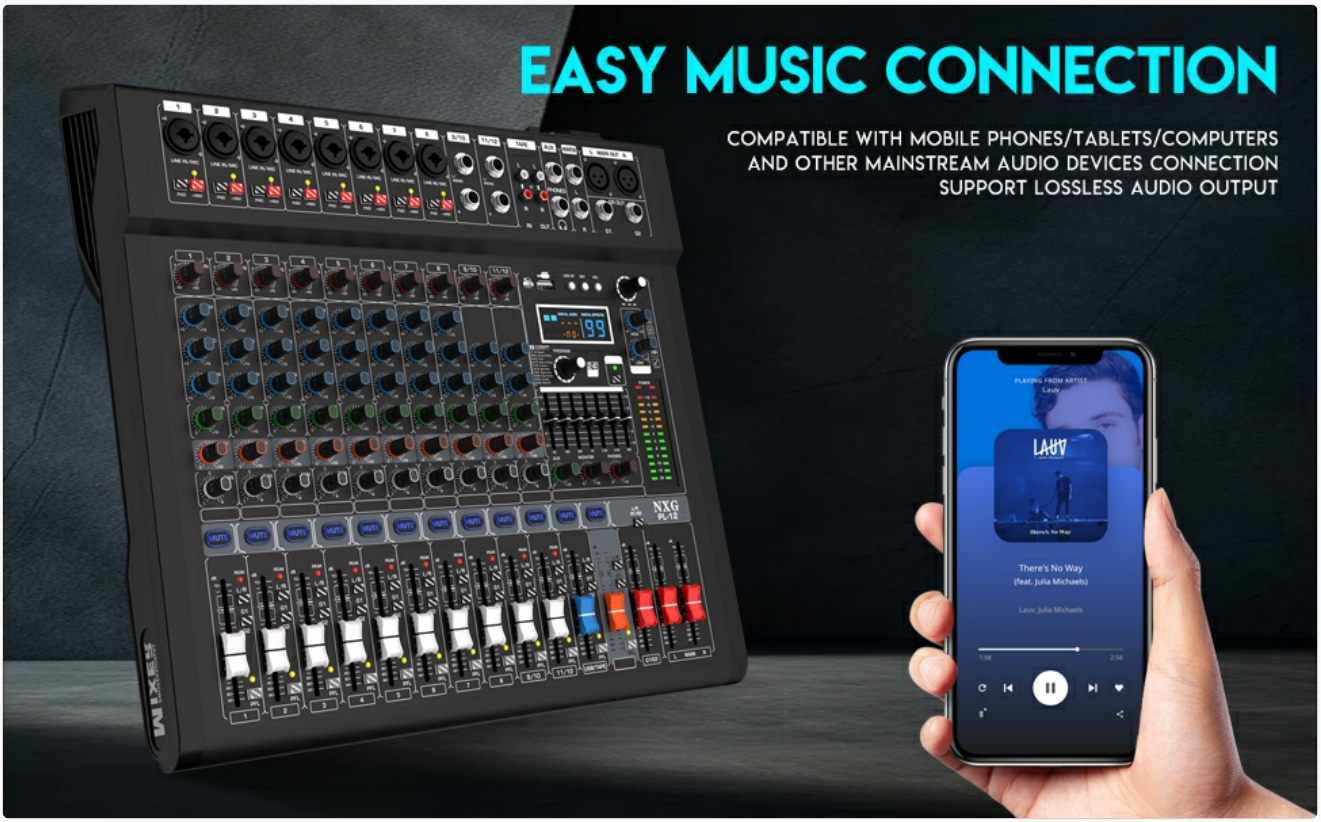


Figure 5.3: Display of the 99 DSP reverb effects, categorized by type (Hall, Room, Delay, Echo, Chorus, etc.). This image illustrates the variety of effects available for sound enhancement.

5.3. Bluetooth Function

Connect your mobile device wirelessly to the mixer for audio playback.

1. **Activate Bluetooth:** Press the BT button on the mixer. The Bluetooth indicator will flash, indicating pairing mode.
2. **Pair Device:** On your mobile device, search for Bluetooth devices and select 'AMS-12'. Once paired, the indicator will glow steadily.
3. **Playback:** Play audio from your device. Control the volume using the dedicated Bluetooth volume knob on the mixer.

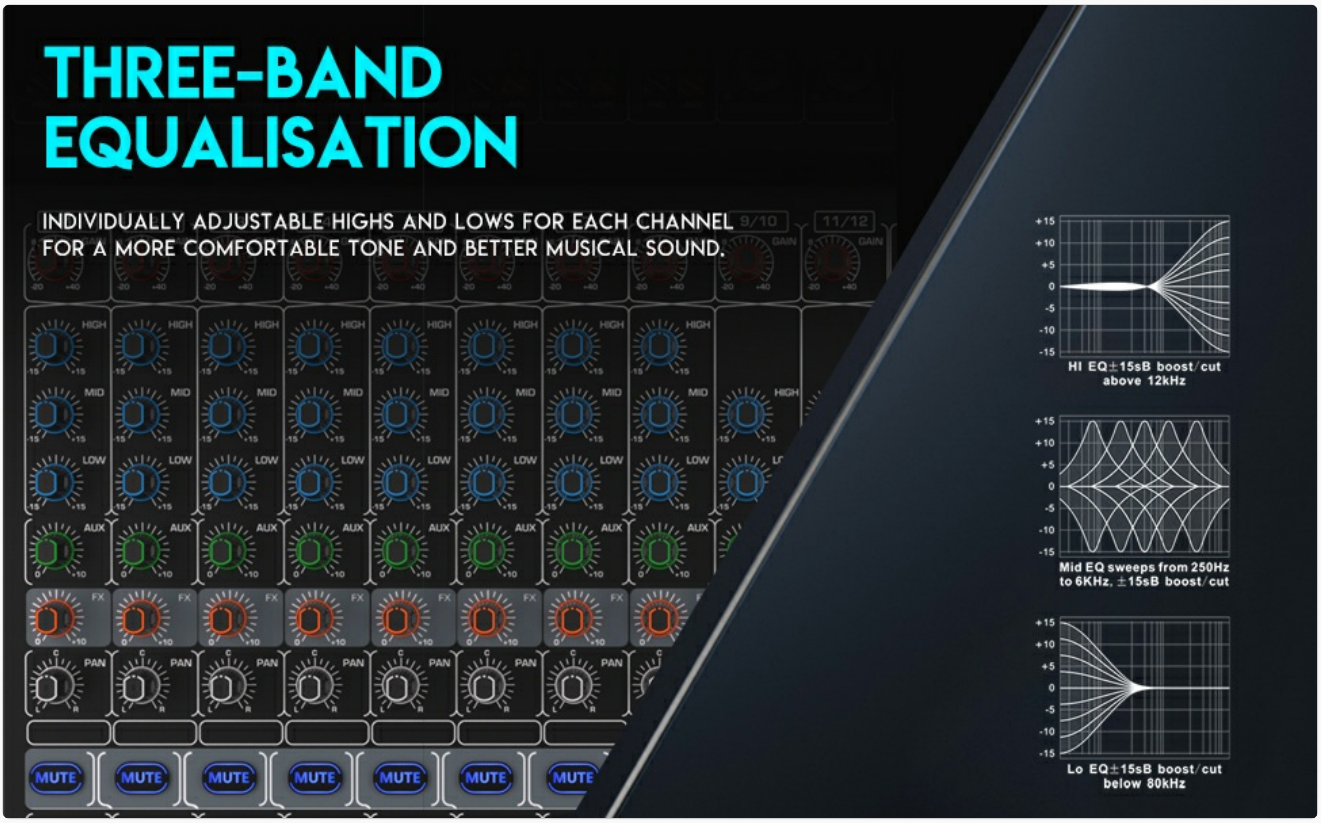


Figure 5.4: Image demonstrating a smartphone connected wirelessly via Bluetooth to the AMS-12 mixer. This highlights the convenience of streaming audio directly to the mixer.

5.4. USB Interface

The USB port allows for direct audio playback and recording.

1. **USB Playback:** Insert a USB flash drive containing audio files into the USB port. Use the transport controls (Play/Pause, Skip) and the USB volume knob to manage playback.
2. **USB Recording:** Connect the mixer to a computer via USB. The mixer will appear as an audio interface. Use your preferred digital audio workstation (DAW) software to record the main mix.

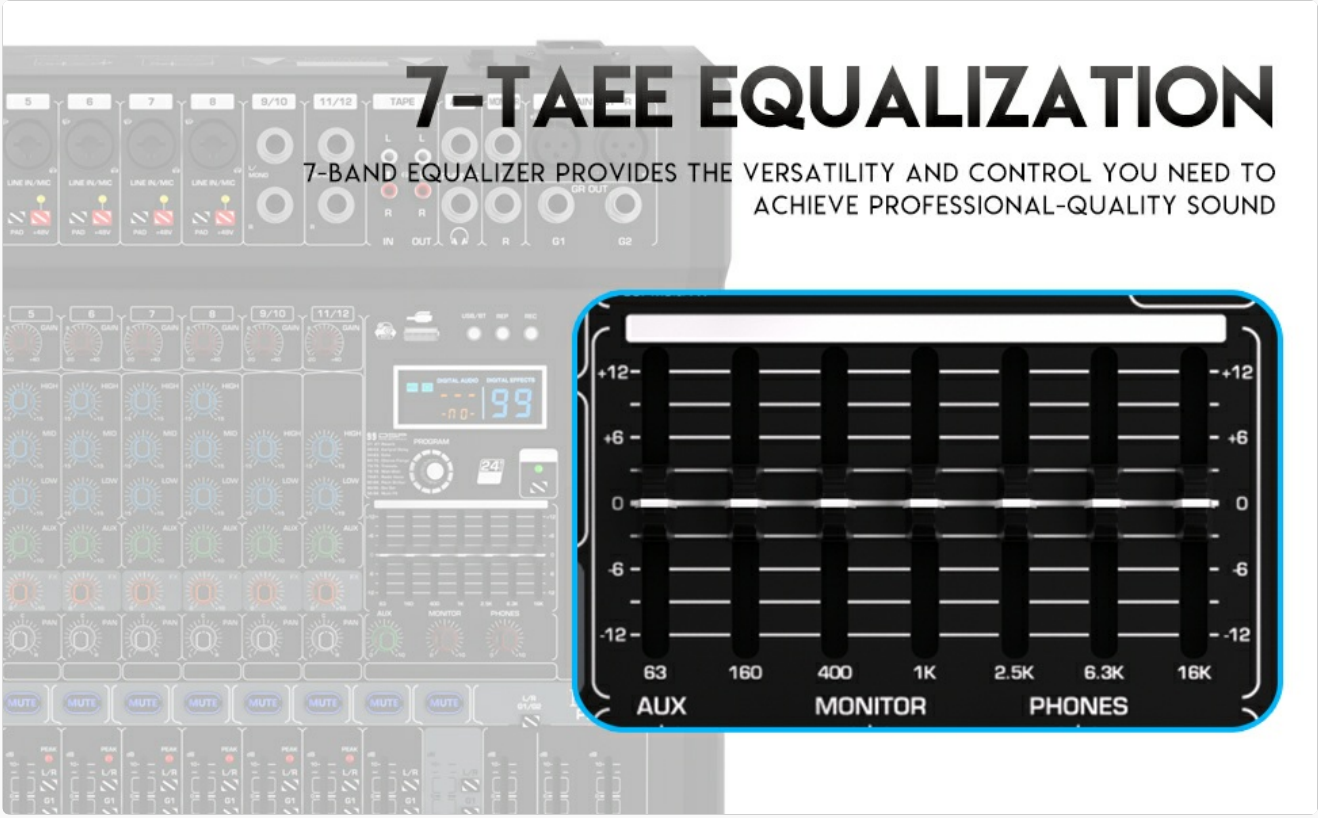


Figure 5.5: Visual representation of a USB drive inserted into the mixer's USB port. This illustrates the plug-and-play functionality for audio playback and recording.

5.5. 7-Band Graphic Equalizer

The AMS-12 includes a dual 7-band graphic equalizer for fine-tuning the overall output sound.

- **Frequency Bands:** Adjust the faders for specific frequency ranges (e.g., 63Hz, 160Hz, 400Hz, 1KHz, 2.5KHz, 6.3KHz, 16KHz) to boost or cut frequencies as needed.
- **Application:** Use this EQ to compensate for room acoustics, enhance specific instruments, or achieve a desired overall tonal balance for your main mix.



Figure 5.6: Detailed view of the 7-band graphic equalizer. This image shows the faders for each frequency band, allowing for precise control over the output sound.

6. Maintenance

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

- **Cleaning:** Regularly wipe the mixer's surface with a soft, dry cloth. Avoid abrasive cleaners or solvents.
- **Storage:** When not in use, store the mixer in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Dust Protection:** Use a dust cover to protect the mixer from dust accumulation, especially on faders and knobs.

7. Troubleshooting

If you encounter issues with your AMS-12 mixer, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
No sound output	Power not connected; Main fader down; Channel fader down; Mute engaged; Incorrect output connection.	Check power, raise main and channel faders, disengage mute, verify output cables.
No sound from a specific channel	Gain too low; Channel fader down; Mute engaged; Incorrect input connection; Faulty cable.	Adjust gain, raise channel fader, disengage mute, check input cable, try a different cable.
Hum or noise in audio	Ground loop; Faulty cable; Improper gain staging; Interference.	Check all cable connections, ensure proper gain levels, use balanced cables where possible, try isolating power sources.
Bluetooth not pairing	Bluetooth not activated; Device too far; Already paired with another device.	Ensure BT button is pressed, keep device close, disconnect from other devices, restart mixer and device.
DSP effects not working	FX send knob down; Main FX return fader down; Incorrect effect selected.	Increase channel FX send, raise main FX return fader, verify effect selection.

8. Specifications

Technical specifications for the Yamnweo AMS-12 Professional 12-Channel Audio Mixer:

- **Model:** AMS-12
- **Number of Channels:** 12
- **DSP Effects:** 99 types
- **Equalization:** 3-band per channel, Dual 7-band graphic EQ on main output
- **Phantom Power:** +48V (on select channels)
- **Connectivity:** Bluetooth, USB Interface
- **Output Connector Type:** Auxiliary, XLR

- **Item Weight:** 11.88 pounds (5.4 Kilograms)
- **Package Dimensions:** 19 x 18.4 x 5.8 inches
- **Voltage:** 120 Volts (AC)

9. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your purchase or contact Yamnweo customer service through their official website. Keep your purchase receipt as proof of purchase for warranty claims.
Online Resources: For additional support, FAQs, and product updates, visit the official Yamnweo website: Yamnweo Store

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