Nuoxiange XF-12

Nuoxiange XF-12 12-Channel Professional Mixer User Manual

Model: XF-12

Introduction | Safety Instructions | Product Overview | Setup | Operation | Maintenance | Troubleshooting | Specifications | Warranty & Support

1. Introduction

This manual provides detailed instructions for the Nuoxiange XF-12 12-Channel Professional Mixer. Please read this manual thoroughly before operating the device to ensure proper usage, optimal performance, and to prevent damage. Keep this manual for future reference.
The Nuoxiange XF-12 is a versatile audio mixer designed for various applications, including live performances, studio recordings, and events. It features 12 input channels, a 99-bit DSP effects processor, a 7-band EQ chip, USB recording and playback, and Bluetooth connectivity.

2. Safety Instructions

WARNING: To reduce the risk of electric shock, do not expose this apparatus to rain or moisture.

- Read all instructions before operating the product.
- Retain these instructions for future reference.
- Heed all warnings on the product and in the operating instructions.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

3. Product Overview

The Nuoxiange XF-12 mixer provides comprehensive control over your audio. Key features include:

- **12-Channel Input:** Ample connections for microphones, instruments, and other audio sources.
- **99-Bit DSP Effects:** Integrated digital signal processing for customizable audio effects.
- **7-Band EQ Chip:** Fine-tune your audio output with precise equalization.
- **USB Recording & Playback:** Directly record mixes to USB or play MP3s.
- **Bluetooth Connectivity:** Wireless audio streaming from compatible devices.
- **+48V Phantom Power:** For condenser microphones.
- **Individual Channel Mute:** Mute buttons with LED indicators for each channel.



Figure 3.1: Front view of the Nuoxiange XF-12 12-Channel Professional Mixer, showing all input channels, faders, knobs, and the digital display.



Figure 3.2: Top and rear view of the Nuoxiange XF-12 mixer, highlighting its professional design and connectivity options.

4. Setup

4.1 Unpacking

Carefully remove the mixer from its packaging. Inspect the unit for any signs of damage. Retain the packaging for future transport or storage.

4.2 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.

4.3 Connecting Inputs

The XF-12 features 10 mono input channels (1-10) and one stereo input channel (11/12).

- **Microphones:** Connect dynamic or condenser microphones to the XLR inputs (MIC/LINE) on channels 1-10. If using condenser microphones, ensure +48V phantom power is activated (see Section 5.6).
- **Instruments:** Connect instruments like guitars or keyboards to the 1/4" TRS/TS inputs (MIC/LINE) on channels 1-10.
- **Line-Level Devices:** Connect CD players, media players, or other line-level devices to the stereo 1/4" TRS inputs on channel 11/12, or to the 1/4" TRS/TS inputs on mono channels.
- **USB Audio:** For USB audio input, connect a USB drive to the USB port.

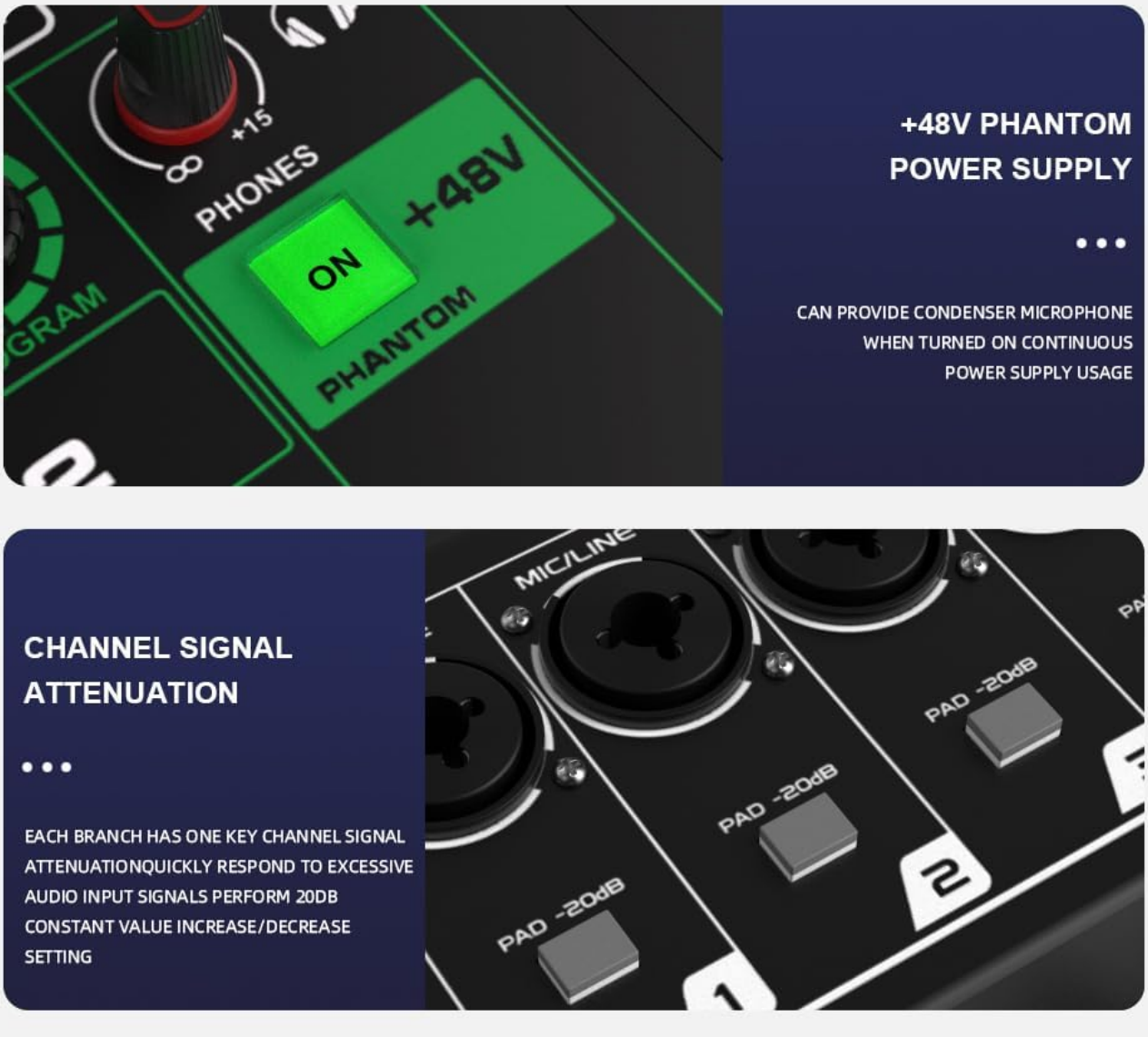


Figure 4.1: Detail of the input section, showing XLR/TRS combo jacks and the +48V phantom power switch.

4.4 Connecting Outputs

- **Main Output:** Connect the MAIN OUT (XLR or 1/4" TRS) to your power amplifier, powered speakers, or recording device.
- **Headphones:** Connect headphones to the PHONES 1/4" stereo jack.

- **Auxiliary Outputs:** Use AUX1 and AUX2 outputs for monitor mixes or external effects processors.

5. Operating Instructions

5.1 Channel Controls (Channels 1-10)

- **GAIN Knob:** Adjusts the input sensitivity for the connected microphone or instrument. Set this to achieve a strong signal without clipping (PEAK LED should not light up consistently).
- **EQ (Equalizer) Knobs:**
    - **HIGH:** Adjusts treble frequencies (typically above 12kHz).
    - **MID:** Adjusts mid-range frequencies (typically 250Hz to 6kHz).
    - **LOW:** Adjusts bass frequencies (typically below 80Hz).



Figure 5.1: Visual representation of the three-band equalization curves (High, Mid, Low) and their frequency ranges.

- **FX Knob:** Controls the amount of signal sent to the internal DSP effects processor.
- **PAN Knob:** Adjusts the stereo position of the channel signal (left to right).

- **LEVEL Fader:** Controls the overall volume level of the channel in the main mix.
- **ON/OFF Button:** Mutes or unmutes the channel. An LED indicator shows the channel status.



Figure 5.2: Close-up of a channel's ON/OFF (mute) button with its illuminated LED, indicating the channel's active status.

- **PFL Button:** Pre-Fader Listen. Sends the channel's signal to the headphones for monitoring before it reaches the main mix.

5.2 Master Section Controls

- **MAIN L/R Faders:** Control the overall volume of the main stereo output.
- **PHONES Knob:** Adjusts the volume of the headphone output.
- **EFF Fader:** Controls the overall level of the internal effects return to the main mix.

5.3 DSP Effects (99-Bit)

The mixer includes a 99-bit DSP effects processor. Use the PROGRAM knob to select from various effects (e.g., reverb, delay, chorus). The digital display shows the selected effect number. Adjust the FX knobs on individual channels to send signal to the effects processor, and the EFF fader to control the overall effect level.

5.4 USB Recording and MP3 Playback

The integrated USB player/recorder allows for direct recording to a USB drive and playback of MP3 files.

1. Insert a USB drive into the USB port.
2. Use the control buttons (Play/Pause, Next, Previous, Mode) on the USB player section to navigate and control playback.
3. To record, select the recording mode on the USB player and press the record button. The main mix will be recorded to the USB drive.



Figure 5.3: A USB drive connected to the mixer's USB port, illustrating its bidirectional transmission capability for recording and playback.

5.5 Bluetooth Connectivity

The XF-12 supports wireless audio streaming via Bluetooth.

1. Press the MODE button on the USB player section until "BT" (Bluetooth) is displayed.

2. On your Bluetooth-enabled device (e.g., smartphone, tablet), search for available devices and select "Nuoxiange XF-12" (or similar name).
3. Once paired, audio from your device will stream wirelessly to the mixer. Adjust the volume using your device and the mixer's MP3/USB channel level.



Figure 5.4: A smartphone displaying music playback, wirelessly connected to the mixer via Bluetooth.

5.6 +48V Phantom Power

The mixer provides +48V phantom power for condenser microphones. This power is supplied through the XLR inputs.

- Ensure all channel faders are down before activating phantom power.
- Press the +48V PHANTOM button to activate. The LED indicator will illuminate.
- Only activate phantom power when using condenser microphones that require it. Do not activate it for dynamic microphones or other devices that do not require it, as it could cause damage.
- Deactivate phantom power before connecting or disconnecting microphones.

5.7 Channel Signal Attenuation (PAD)

Some channels may feature a PAD button (typically -20dB). This button attenuates the input signal by a fixed amount (e.g., 20dB) to prevent clipping when connecting high-output sources. Use it when the GAIN knob is at its minimum setting, but the PEAK LED still flashes.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the mixer. Do not use liquid cleaners, solvents, or abrasive materials, as they may damage the finish or internal components.
- **Storage:** When not in use for extended periods, store the mixer in a cool, dry place, away from direct sunlight and extreme temperatures. Cover the unit to protect it from dust.
- **Ventilation:** Ensure the mixer's ventilation openings are not blocked to prevent overheating.

7. Troubleshooting

Problem	Possible Cause	Solution
No sound output	Power not connected or switched on. Main L/R faders are down. Channel faders are down or channel is muted. Cables are incorrectly connected or faulty. Speakers/amplifier are off or faulty.	Check power connection and switch. Raise MAIN L/R faders. Raise channel faders and ensure channel ON/OFF button is active (LED on). Verify all cable connections and test cables. Check external audio equipment.
Distorted sound	Input GAIN too high. Channel LEVEL or MAIN L/R faders too high. PEAK LED constantly lit. External equipment output too high.	Reduce GAIN knob for the affected channel. Lower channel LEVEL or MAIN L/R faders. Adjust GAIN until PEAK LED only flashes occasionally. Reduce output level from connected devices.
Microphone not working (condenser mic)	+48V Phantom Power is off. Faulty microphone or cable.	Activate +48V Phantom Power. Test with a different microphone or cable.
Bluetooth not connecting	Mixer not in Bluetooth mode. Device too far from mixer. Bluetooth on device is off.	Ensure mixer display shows "BT". Move device closer to the mixer. Enable Bluetooth on your device.

8. Specifications

Feature	Detail
Brand	Nuoxiange
Model	XF-12

Feature	Detail
Number of Channels	12 (10 mono, 1 stereo)
DSP Effects	99-bit
Equalizer	7-band EQ chip (3-band per channel)
Connectivity Technology	XLR, 1/4" TRS/TS, USB, Bluetooth
Phantom Power	+48V
USB Functionality	Recording and MP3 Playback
Power Source	Corded Electric
Item Weight	3 Pounds (1.36 kg)
Package Dimensions	9.37 x 7.2 x 2.35 inches (23.8 x 18.3 x 6 cm)

9. Warranty & Support

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official Nuoxiange brand store.

Nuoxiange Brand Store: Visit the Nuoxiange Store on Amazon

For technical assistance or service inquiries, please contact Nuoxiange customer support through the provided channels on their official website or store page.

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