Behringer X1222USB

Behringer Xenyx X1222USB Mixer User Manual
Model: X1222USB

Introduction	Key Features	Setup	Operating Instructions	Audio Interface &

Recording   Maintenance   Troubleshooting   Specifications   Warranty & Support

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of your Behringer Xenyx X1222USB Mixer. The X1222USB is a premium 16-input, 2/2-bus analog mixer featuring XENYX Mic Preamps, studio-grade compressors, British EQs, a 24-bit multi-FX processor, and a built-in USB/Audio Interface. It is designed for live sound applications and professional-quality recordings.

Figure 1: Top-down view of the Behringer Xenyx X1222USB Mixer, showing all controls and inputs/outputs.

2. KEY FEATURES

- Premium ultra-low noise, high headroom analog mixer.
- 4 state-of-the-art, phantom-powered XENYX Mic Preamps.
- 4 studio-grade compressors with "one-knob" functionality.
- Neo-classic "British" 3-band EQs for warm and musical sound.
- New studio-grade FX processor with 16 editable presets (reverb, chorus, flanger, delay, pitch shifter, multi-effects).
- Built-in stereo USB/Audio Interface for direct computer connection.
- 7-band stereo graphic EQ for precise frequency correction.
- FBQ Feedback Detection System.
- XPQ 3D stereo surround effect.
- Voice Canceller function for sing-along applications.
- 6 mono mic inputs and 4 fully equipped stereo input channels (including 2 additional mic inputs on channels 5/6 and 7/8).
- Channel inserts on mono channels for outboard equipment.
- 2 aux sends per channel (1 pre-fader for monitoring, 1 post-fader for internal FX/external send).

- Balanced main mix outputs with gold-plated XLR connectors.
- Headphone/control room output and stereo rec outputs.
- Long-wearing 60-mm logarithmic-taper faders and sealed rotary controls.
- "Planet Earth" switching power supply (100 - 240 V).
- Rack mount brackets included.

3. SETUP

3.1 Unpacking and Initial Inspection

Carefully unpack the mixer and all accessories. Inspect the unit for any signs of damage during transit. Retain the packaging materials for future transport or storage.

3.2 Power Connection

Connect the supplied power cable to the mixer's power input and then to a suitable AC power outlet. The "Planet Earth" switching power supply is designed for global use (100-240 V), ensuring flexibility and energy efficiency.

3.3 Connecting Microphones and Instruments

The X1222USB features 6 mono mic inputs (XLR) with phantom power and 4 stereo line inputs. Channels 5/6 and 7/8 also include additional mic inputs. Use XLR cables for microphones and 1/4" TRS or TS cables for line-level instruments and devices.

- **Microphones:** Connect microphones to the XLR inputs (MIC) on channels 1-8. Activate phantom power (+48V) if using condenser microphones.
- **Line-Level Devices:** Connect keyboards, drum machines, or other line-level devices to the 1/4" LINE IN jacks. Stereo channels (5/6, 7/8, 9/10, 11/12) accept stereo signals via two 1/4" jacks (Left/Mono and Right).
- **Channel Inserts:** Channels 1-4 feature 1/4" TRS insert jacks for connecting external processors like gates or compressors.

Figure 2: Angled view of the Behringer Xenyx X1222USB Mixer, highlighting the various input and output connections.

3.4 Connecting Main Outputs and Monitoring

- **Main Mix Outputs:** Connect the balanced main mix outputs (XLR) to your power amplifier, powered speakers, or recording device.
- **Control Room/Headphone Output:** Use the 1/4" CONTROL ROOM OUT jacks to connect to studio monitors. Plug headphones into the 1/4" PHONES jack for personal monitoring.
- **Rec Outputs:** The stereo REC OUT (RCA) allows connection to a recording device.

4. OPERATING INSTRUCTIONS

4.1 Channel Controls

- **GAIN:** Adjusts the input sensitivity for each channel. Set this to achieve a healthy signal level without clipping.
- **COMP (Channels 1-4):** The "one-knob" compressor allows easy dynamic range control for vocals and instruments. Turn the knob clockwise to increase compression.
- **EQ (HIGH, MID, LOW):** The 3-band "British" EQ allows you to shape the tone of each channel. Adjust these knobs to boost or cut frequencies.
- **AUX:** Controls the amount of signal sent to the auxiliary sends. AUX 1 is pre-fader (for monitoring), and AUX 2 is post-fader (for effects or external sends).
- **PAN/BAL:** PAN (mono channels) positions the signal in the stereo field. BAL (stereo channels) adjusts the balance between left and right signals.

- **MUTE:** Mutes the channel's output to the main mix, subgroups, and aux sends.
- **LEVEL FADER:** Controls the overall volume of the channel in the main mix.

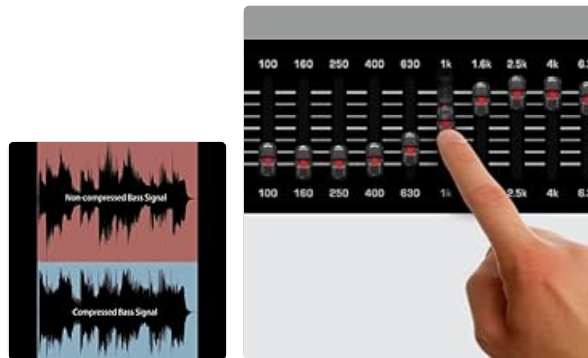Figure 3: Illustration of microphone input and the effect of compression on audio signals.

Figure 4: Visual representation of the "British" EQ and the 7-band graphic equalizer.

4.2 Main Section Controls

- **Graphic EQ:** The 7-band stereo graphic EQ can be assigned to the main mix or monitor mix for precise frequency correction.
- **FBQ Feedback Detection System:** Activates the FBQ system, which illuminates the faders of critical frequencies to help eliminate feedback.
- **FX Processor:** Select and adjust 16 editable, studio-grade effects. Use the PROGRAM knob to select effects and PARAMETER to adjust their settings. The TAP button allows for tempo-syncing time-based effects.
- **XPQ 3D Stereo Surround:** Engages the XPQ 3D effect for an enhanced stereo image.
- **Voice Canceller:** Reduces the vocal presence in pre-recorded tracks for karaoke applications.
- **Main Mix Fader:** Controls the overall output volume of the main stereo mix.

Figure 5: Close-up of the 24-bit dual engine DSP display, indicating the selected effect preset.

5. Audio Interface & Recording

The Xenyx X1222USB features a built-in bi-directional stereo USB audio interface, allowing direct connection to your computer for recording and playback.

5.1 USB Connection

Connect the mixer to your PC or Mac using a standard USB cable. The mixer will be recognized as an audio device. Drivers and software may be required for optimal performance, typically available from the Behringer website.

Figure 6: Depiction of the USB interface and port for computer connectivity.

5.2 Recording Software

The mixer is compatible with various digital audio workstation (DAW) software. Behringer often provides free audio recording, editing, and podcasting software bundles (e.g., Audacity, Podifier, Juice, Podnova, Golden Ear) and instrument/effect plug-ins, which can be downloaded from their official website. This allows you to turn your computer into a complete home recording studio.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the mixer's surface. Avoid abrasive cleaners or solvents.
- **Dust Protection:** Keep the mixer covered when not in use to prevent dust accumulation, which can affect faders and rotary controls.
- **Environmental Conditions:** Operate the mixer in a dry environment, away from extreme temperatures, direct sunlight, and excessive humidity.
- **Ventilation:** Ensure proper ventilation around the unit to prevent overheating.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output	Power off; cables disconnected; faders down; mute engaged.	Check power, all cable connections, raise main and channel faders, disengage mute buttons.
Distorted sound	Input gain too high; output level too high; faulty cable.	Reduce input GAIN; lower main mix fader; check/replace cables.
Feedback (howling sound)	Microphone too close to speakers; critical frequencies boosted.	Reposition microphone; activate FBQ Feedback Detection System; use graphic EQ to cut problematic frequencies.
No phantom power for condenser mic	Phantom power not engaged.	Ensure +48V phantom power is switched on for the relevant channels.
USB audio not recognized	Incorrect USB cable; driver issue; computer settings.	Use a high-quality USB cable; install/update drivers from Behringer website; check computer's audio input/output settings.

8. SPECIFICATIONS

Feature	Detail
Item Weight	11.95 pounds (5.42 kg)
Product Dimensions (D x W x H)	15.7" x 18.3" x 5.95" (39.9 cm x 46.5 cm x 15.1 cm)
Model Number	X1222USB
Connectivity Technology	USB
Mixer Channel Quantity	16 (6 mono mic/line, 4 stereo line)
Power Source	Corded Electric (100 - 240 V)
Mic Preamps	XENYX, Phantom Powered (+48V)
Compressors	4 (on mono channels)
EQ	3-band "British" EQ per channel, 7-band stereo graphic EQ
FX Processor	24-bit dual engine, 16 editable presets
USB Audio Interface	Stereo In/Out
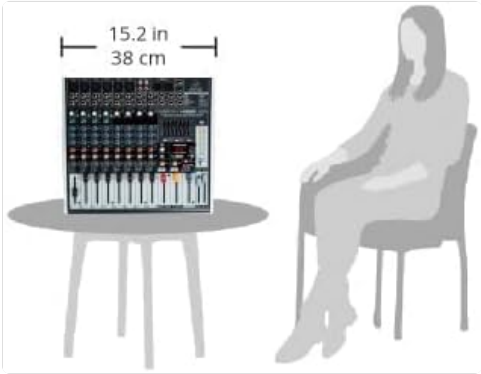
Figure 7: Physical dimensions of the mixer, illustrating its compact size.

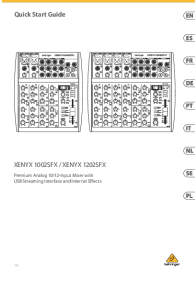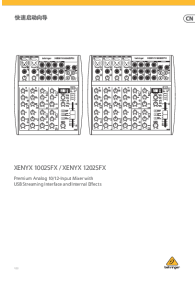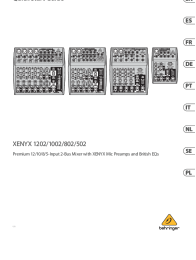## 9. WARRANTY & SUPPORT

9.1 Warranty Information

For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official Behringer website. Retain your proof of purchase for warranty claims.

9.2 Technical Support

If you encounter issues not covered in the troubleshooting section, or require further assistance, please contact Behringer customer support. You can find contact information and additional resources, including the full PDF user manual, on the official Behringer website or through the provided link:

Download Official User Manual (PDF)

Related Documents - X1222USB

[Behringer XENYX Q-Series USB Mixers: User Manual](#)

User manual for Behringer XENYX Q1202USB, Q1002USB, Q802USB, Q502USB premium 2-bus mixers. Details features like XENYX Mic Preamps, British EQ, and USB audio interface for live and studio use.

[Behringer XENYX X1222USB User Manual and Mixer Guide](#)

Comprehensive user manual for the Behringer XENYX series of small format analog mixers, including the X1222USB, X2442USB, X2222USB, X1832USB, X1622USB, and X1204USB. Details features like XENYX mic preamps, one-knob compressors, British EQs, 24-bit multi-FX processor, and USB audio interface. Includes model comparisons, specifications, and setup examples.

[Behringer XENYX 1002SFX / XENYX 1202SFX Quick Start Guide](#)

Get started quickly with the Behringer XENYX 1002SFX and XENYX 1202SFX premium analog mixers. This guide provides essential setup information for these versatile 10/12-input mixers featuring USB streaming and internal effects.

[Behringer XENYX 1002SFX / XENYX 1202SFX Quick Start Guide](#)

A quick start guide for the Behringer XENYX 1002SFX and XENYX 1202SFX premium analog mixers, detailing their features, connections, controls, and technical specifications for live performance and home studio use.

[Behringer XENYX 1202/1002/802/502 Quick Start Guide](#)

A concise guide to setting up and operating the Behringer XENYX 1202, 1002, 802, and 502 premium 12/10/8/5-input 2-bus mixers with XENYX Mic Preamps and British EQs.

[Behringer XENYX 1202/1002/802/502 Quick Start Guide](#)

A quick start guide for the Behringer XENYX series mixers, covering setup, controls, and specifications for the 1202, 1002, 802, and 502 models. Includes important safety information and warranty details.