

Peavey FX2 32 Channel Mixer

Peavey FX2 32 Channel Mixer User Manual

INTRODUCTION

Welcome to the Peavey FX2 32 Channel Mixer. This manual provides essential information for setting up, operating, and maintaining your mixer. The FX2 series offers advanced features for live sound and studio recording, including Silencer mic preamps, dual DSP effects engines, and versatile USB audio capabilities.

To ensure optimal performance and longevity of your equipment, please read this manual thoroughly before operation and retain it for future reference.

SAFETY INSTRUCTIONS

Observe the following safety precautions to prevent electric shock, fire, or damage to the unit.

- **Power Source:** Connect the unit only to the type of power supply indicated on the unit.
- **Grounding:** Do not defeat the safety purpose of the polarized or grounding-type plug.
- **Power Cord Protection:** Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- **Ventilation:** Ensure adequate ventilation. Do not block any ventilation openings.
- **Water and Moisture:** Do not expose this apparatus to rain or moisture. Do not use near water.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Servicing:** 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.

PRODUCT OVERVIEW

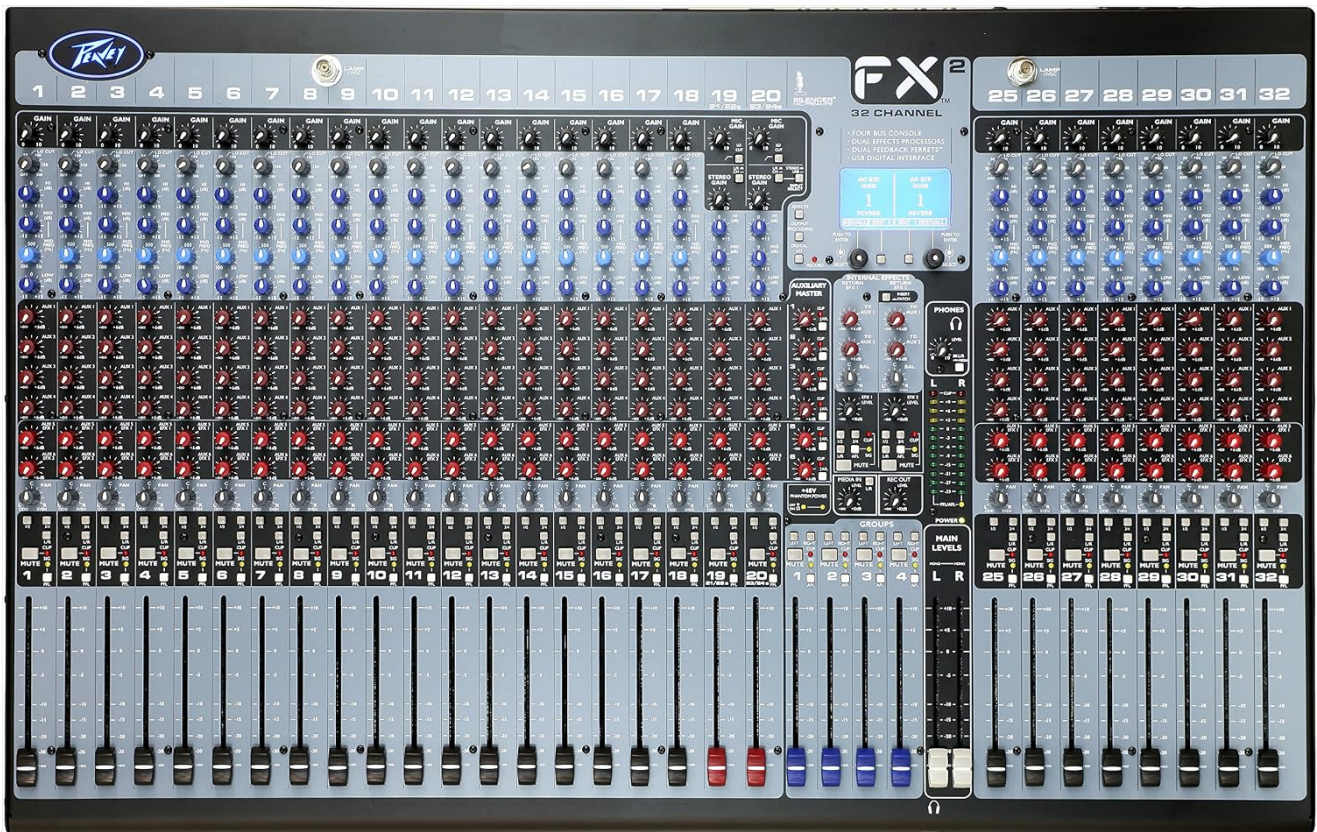
The Peavey FX2 32 Channel Mixer is a robust audio console designed for professional sound reinforcement and

recording environments. It integrates advanced digital signal processing with a comprehensive analog mixing interface.

Key Features

- 32 improved, low-noise Silencer mic preamps for crystal-clear signal reproduction.
- 48V phantom power available for condenser microphones.
- 3-band EQ, 4 pre-fader monitor sends, and 2 post-fader effects sends on each channel.
- Signal and Clip indicators on each channel for precise level monitoring.
- Dual DSP engines with multiple simultaneous effects assignable via aux 5/6, including reverb, delay, compression, expander, de-esser, chorus, flanger, tube emulator, vocal enhancer, and gate.
- Digital output processing section featuring Feedback Ferret, dual 5-band Parametric EQ or dual 28-band Graphic EQs, digital delay lines, and dynamics/limiters.
- Output section configurable for Stereo, Dual Mono, or Subwoofer mode with a built-in electronic crossover.
- Dual USB 2.0 ports for streaming digital audio to a computer or direct recording/playback to a USB memory stick with built-in MP3 compression.

Front Panel Controls



This image displays the front panel of the Peavey FX2 32 Channel Mixer, showcasing its 32 input channels, master section, and integrated effects controls. The layout includes numerous knobs, faders, and buttons for comprehensive audio mixing, allowing precise control over each input, routing, and output.

Rear Panel Connections



The rear panel of the Peavey FX2 32 Channel Mixer is shown, detailing the extensive array of input and output connectors. This includes XLR and 1/4-inch jacks for channels, master outputs, group outputs, aux sends, and USB ports for digital connectivity, alongside the power input. Proper connection of these ports is crucial for system functionality.

SETUP GUIDE

Power Connection

Connect the provided power cable to the mixer's AC inlet and then to a grounded electrical outlet. Ensure the mixer's power switch is in the OFF position before connecting or disconnecting the power cable.

Audio Input Connections

- **Microphones:** Use XLR cables to connect microphones to the XLR input jacks on each channel. Activate 48V phantom power for condenser microphones using the dedicated switch.
- **Line-Level Devices:** Connect instruments, media players, or other line-level devices using 1/4-inch TRS or TS cables to the line input jacks on each channel.

Audio Output Connections

- **Main Outputs:** Connect the main XLR or 1/4-inch TRS outputs to your power amplifier, powered speakers, or recording interface.
- **Auxiliary Outputs:** Use the auxiliary outputs (TRS) to send signals to stage monitors, external effects processors, or additional recording devices.
- **Group Outputs:** Utilize the group outputs (TRS) for sub-mixing multiple channels before sending them to the main mix.

USB Connection

Connect the mixer to a computer using a USB 2.0 cable for digital audio streaming. Alternatively, insert a USB memory stick into the designated 'A' USB port for direct recording of your mix or playback of audio files.

OPERATION

Channel Operation

- **Gain Control:** Adjust the GAIN knob for each input channel to achieve an optimal input level without clipping. The Signal and Clip LEDs provide visual feedback.
- **Equalization (EQ):** Use the 3-band EQ (High, Mid, Low) on each channel to shape the tone of your audio.
- **Auxiliary Sends:** The four pre-fader AUX sends are ideal for creating monitor mixes. The two post-fader AUX sends are typically used for sending signals to internal or external effects processors.

- **Channel Fader:** Control the individual channel volume using the channel fader.

DSP Effects Engine

The FX2 mixer features dual DSP engines, allowing for two independent effects processors to be used simultaneously. Select from a wide range of effects such as reverb, delay, compression, and more. Effects can be assigned to any channel via Aux 5/6 sends and adjusted in the master section.

Digital Output Processing

The digital output section provides powerful tools for optimizing your overall sound:

- **Feedback Ferret:** An automatic feedback elimination system to prevent unwanted acoustic feedback.
- **Equalization:** Choose between dual 5-band Parametric EQ or dual 28-band Graphic EQs for precise frequency control of your main outputs.
- **Dynamics/Limiters:** Apply compression or limiting to control the dynamic range of your mix.
- **Output Configuration:** Configure the main outputs for Stereo, Dual Mono, or Subwoofer mode, with an integrated electronic crossover for subwoofer applications.

USB Audio Interface

The dual USB 2.0 ports offer versatile digital audio capabilities:

- **Recording:** Record your live performances, rehearsals, or songwriting sessions directly to an inexpensive USB memory stick. The mixer includes built-in MP3 compression for convenience.
- **Playback:** Playback audio files from a USB stick for background music or intermission content.
- **Computer Connectivity:** Stream digital audio directly to and from a computer for multi-track recording or integration with digital audio workstations (DAWs).

MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your Peavey FX2 mixer.

- **Cleaning:** Regularly clean the exterior of the mixer with a soft, dry, lint-free cloth. Avoid using abrasive cleaners, solvents, or waxes, as these can damage the finish and controls.
- **Dust Control:** Keep the mixer free from dust, especially around faders and knobs. Use compressed air to gently clear dust from crevices and ventilation openings.
- **Ventilation:** Ensure that the mixer's ventilation openings are not obstructed to prevent overheating. Operate the unit in a well-ventilated area.
- **Storage:** When not in use for extended periods, store the mixer in a cool, dry place, ideally covered to protect it from dust and environmental elements.

TROUBLESHOOTING

If you encounter issues with your Peavey FX2 mixer, refer to the following common troubleshooting steps.

No Sound Output

- **Power:** Verify the mixer is powered on and the power indicator light is illuminated.
- **Connections:** Check all audio cable connections from inputs to outputs, ensuring they are securely plugged

in.

- **Faders and Knobs:** Ensure main output faders are raised, channel faders are up, and all MUTE buttons are disengaged. Check that gain controls are set appropriately.
- **External Devices:** Confirm that connected amplifiers or powered speakers are turned on and functioning correctly.

Distortion or Unclear Sound

- **Gain Staging:** Reduce the GAIN control on the input channels if the CLIP indicator is frequently lighting up. Adjust channel faders and main faders to avoid overdriving the mixer or connected equipment.
- **Cable Quality:** Inspect audio cables for damage or poor connections.
- **EQ Settings:** Ensure EQ settings are not excessively boosting frequencies, which can lead to distortion.

Feedback Issues

- **Feedback Ferret:** Engage and configure the Feedback Ferret feature in the digital output processing section.
- **Microphone Placement:** Reposition microphones further away from speakers or monitors.
- **Monitor Levels:** Reduce the volume of monitor speakers.
- **EQ Adjustment:** Use the graphic or parametric EQ to cut problematic frequencies that are causing feedback.

TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	Peavey
Number of Channels	32
Item Weight	21 Pounds
Connectivity Technology	USB
Power Source	Corded Electric
Output Connector Type	TRS, XLR
Audio Input	USB, XLR
Manufacturer	Peavey Electronics
UPC	014367621792
ASIN	B00BJGRJ7G

WARRANTY AND SUPPORT

This Peavey FX2 32 Channel Mixer is covered by a 90-day warranty from the date of purchase. Please retain your proof of purchase for warranty claims.

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact Peavey customer

support. Visit the official Peavey website (www.peavey.com) for the most current contact information and additional product resources.