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› Mackie PROFX12 12-Channel Compact Effects Mixer with USB User Manual

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Mackie PROFX12 12-Channel Compact Effects Mixer with USB User Manual

Model: PROFX12

INTRODUCTION

The Mackie PROFX12 is a professional 12-channel compact effects mixer designed for a variety of audio applications, from live sound to studio recording. It features integrated effects and a USB I/O for seamless computer integration. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your PROFX12 mixer.



Figure 1: Mackie PROFX12 12-Channel Compact Effects Mixer. This image shows the overall layout of the mixer, including input channels, main mix section, and effects controls.

Key Features:

- Professional 12-channel compact mixer with onboard effects and USB I/O.
- Six low-noise, high-headroom Mackie mic preamps with easy LED metering.
- 32-bit RMFX processor with 16 "Gig-Ready" reverbs, choruses, and delays.
- Precision 7-band graphic EQ for tuning Mains or Monitors.
- USB I/O for recording shows and music playback via Mac or PC.

IMPORTANT SAFETY INFORMATION

Please read and understand all instructions before using this product. Retain this manual for future reference.

- **Power Source:** Connect the unit only to the type of power source indicated on the unit.
- **Grounding:** Ensure proper grounding to prevent electric shock.
- **Water and Moisture:** Do not expose this appliance to rain or moisture. Do not use near water.
- **Ventilation:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus

(including amplifiers) that produce heat.

- **Cleaning:** Clean only with a dry cloth.
- **Servicing:** Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way.

SETUP

1. Unpacking

Carefully unpack your Mackie PROFX12 mixer and inspect it for any signs of damage. If you find any damage, contact your dealer immediately.



Figure 2: Mackie PROFX12 Product Box. The packaging protects the mixer during transit.

The package should contain:

- Mackie PROFX12 Mixer

- Power Cord
- USB Cable
- User Manual (this document)

2. Physical Connections

Before connecting any cables, ensure the mixer is powered off and disconnected from the mains power supply.



Figure 3: Mackie PROFX12 Rear Panel. This view shows the power input, USB port, and main output connections.

Power Connection:

1. Connect the supplied power cord to the AC input on the rear panel of the mixer.
2. Plug the other end of the power cord into a suitable AC outlet.
3. Do not power on the mixer until all other connections are made.

Audio Inputs:

- **Microphones:** Connect microphones to the XLR inputs (channels 1-6) using balanced XLR cables. Ensure phantom power is only enabled if required by your condenser microphones.
- **Line-Level Devices:** Connect instruments or other line-level devices to the 1/4-inch TRS/TS inputs on channels 1-12. Stereo devices can be connected to stereo channels (e.g., 7/8, 9/10, 11/12) using 1/4-inch cables.
- **RCA Inputs:** Use the RCA inputs for connecting playback devices like CD players or media players.

Audio Outputs:

- **Main Outputs:** Connect the Main Left and Right XLR or 1/4-inch outputs to your power amplifier or powered speakers.
- **Monitor Outputs:** Use the Monitor Send output to connect to stage monitors or a separate monitor amplifier.
- **FX Send:** The FX Send output can be used to route signal to external effects processors if desired.
- **Headphone Output:** Connect headphones to the 1/4-inch headphone jack for monitoring.

3. USB Connection

The PROFX12 features a built-in USB audio interface for recording and playback with a computer.

1. Connect a standard USB cable from the USB port on the rear panel of the PROFX12 to an available USB port on your Mac or PC.
2. The mixer should be recognized automatically by most modern operating systems without the need for additional drivers.
3. Select the PROFX12 as your audio input/output device in your computer's sound settings or Digital Audio

OPERATING THE MIXER

1. Channel Strip Controls

Each input channel on the PROFX12 features a set of controls to shape the sound.

- **Gain Control:** Adjusts the input sensitivity for the connected microphone or line-level device. Set this to achieve a strong signal without clipping (indicated by the "OL" LED).
- **3-Band EQ:** Provides High, Mid, and Low frequency adjustments for tone shaping. Use these to enhance or cut specific frequencies.
- **Aux Send:** Routes a portion of the channel's signal to the Aux Send output, typically used for monitor mixes.
- **FX Send:** Routes a portion of the channel's signal to the internal RMFX effects processor.
- **Pan Control:** Positions the channel's signal within the stereo field (left to right).
- **Channel Fader:** Controls the overall volume level of the channel in the main mix.
- **Mute Button:** Silences the channel.
- **PFL (Pre-Fader Listen) Button:** Routes the channel's signal to the headphones for solo monitoring before the fader.

2. Main Mix Section

The main mix section controls the overall output of the mixer.

- **Main Faders:** Control the overall volume of the main stereo output.
- **Control Room/Headphone Output:** Provides independent level control for the control room outputs and headphone jack.
- **Phantom Power (+48V):** Activates phantom power for condenser microphones connected to XLR inputs. Use with caution and only when required.

3. RMFX Effects Processor

The PROFX12 features a 32-bit RMFX processor with 16 built-in effects.



Figure 4: RMFX Effects and USB Input Level Section. This image details the effects preset display, selection knob, mute button, and USB input level control.

- **Preset Selection:** Use the "Presets" knob to cycle through the 16 available effects (reverbs, choruses, delays). The selected preset number is shown on the digital display.
- **FX Mute:** Mutes the output of the effects processor.
- **FX Level:** Controls the overall level of the effects sent to the main mix.

4. 7-Band Graphic EQ

A precision 7-band graphic EQ is provided for fine-tuning the frequency response of your main or monitor outputs.

- Each slider corresponds to a specific frequency band. Adjusting a slider up boosts that frequency, while adjusting it down cuts that frequency.
- Use the "Assign" button to route the graphic EQ to either the Main Mix or the Monitor Mix.

5. USB Audio Interface Operation

The USB I/O allows for stereo recording of your main mix and stereo playback from your computer.

- **Recording:** The main stereo mix is sent to your computer via USB. Open your DAW software and select the PROFX12 as your input device to record.
- **Playback:** Audio from your computer can be played back through the mixer. Use the "USB Input Level" control to adjust the playback volume. The "USB Thru" button routes the USB input directly to the main mix.

MAINTENANCE

- **Cleaning:** Clean the mixer with a soft, dry, lint-free cloth. Do not use liquid cleaners or solvents.
- **Dust:** Keep the mixer free from dust. Use a soft brush or compressed air to clean faders and knobs.
- **Storage:** When not in use for extended periods, store the mixer in a cool, dry place, ideally in its original packaging or a protective case.
- **Avoid Liquids:** Never allow liquids to spill onto or into the mixer.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output	<ul style="list-style-type: none">• Power not connected or turned on.• Main faders or channel faders are down.• Mute buttons engaged.• Incorrect input/output connections.	<ul style="list-style-type: none">• Check power cable and switch.• Raise faders to appropriate levels.• Disengage any active mute buttons.• Verify all audio cables are correctly connected.
Distorted sound	<ul style="list-style-type: none">• Input gain too high (clipping).• Output level too high.• Faulty cable.	<ul style="list-style-type: none">• Reduce input gain until "OL" LED no longer flashes.• Lower main faders or amplifier volume.• Test with a different cable.
Hum or noise when using USB	<ul style="list-style-type: none">• Ground loop issue.• USB input level too high on computer.	<ul style="list-style-type: none">• Ensure all equipment is plugged into the same power strip or outlet.• Reduce the USB input volume on your computer and compensate by increasing the USB input level on the mixer.
No effects sound	<ul style="list-style-type: none">• FX Send knob on channel is down.• FX Mute button engaged.• FX Level knob is down.	<ul style="list-style-type: none">• Increase the FX Send on the desired channel.• Disengage the FX Mute button.• Increase the FX Level knob.

SPECIFICATIONS

Brand	Mackie
Model	PROFX12
Number of Channels	12
Connectivity Technology	USB
Power Source	Corded Electric
Item Weight	11.2 Pounds
Frequency Response	12 KHz <i>(Note: This is likely a specific point, not full range. Refer to full spec sheet for details.)</i>
Output Connector Type	XLR, TRS
Audio Input Type	RCA, XLR
UPC	663961025132, 663961025149

WARRANTY INFORMATION

The Mackie PROFX12 mixer comes with a **1-year all-inclusive, non-transferable warranty**. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the official Mackie website or contact their customer support.

SUPPORT

For further assistance, technical support, or service inquiries, please visit the official Mackie website or contact their customer support department. You can often find FAQs, driver downloads, and additional resources online.

Mackie Official Website: www.mackie.com