

Mackie ProFX12v3

Mackie ProFX12v3 Effects Mixer Bundle User Manual

Model: ProFX12v3

Brand: Mackie

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Mackie ProFX12v3 Effects Mixer Bundle. This comprehensive package includes the Mackie ProFX12v3 12-Channel Professional Effects Mixer, Rockville RCM03 Pro Studio Recording Condenser Microphones, Rockville PRO-M50 Studio Headphones, Rockville DMS40 Microphone Boom Arms, Rockville RCTR106B TRS to TRS Cables, and a Rockville RHPA4 4-Channel Professional Headphone Amplifier. Please read this manual thoroughly before using the equipment to ensure proper functionality and longevity.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent electric shock, fire, or injury:

- Do not expose this equipment to rain or moisture.
- Do not remove the cover or back panel. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Ensure the power cord is not pinched or walked on.
- Disconnect the power cord during lightning storms or when unused for long periods.
- Do not block ventilation openings.
- Use only attachments/accessories specified by the manufacturer.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your bundle:

- 1 x Mackie ProFX12v3 12-Channel Professional Effects Mixer with USB
- 2 x Rockville RCM03 Pro Studio Recording Condenser Microphone with Metal Shock Mount
- 2 x Rockville PRO-M50 Studio Headphones with Detachable Coil Cable, Case, and Extra Ear Pads
- 2 x Rockville DMS40 40" Microphone Boom Arm Studio Podcast Mic Stand with Desk Clamp
- 1 x Rockville RHPA4 4 Channel Professional Headphone Amplifier (Stereo or Mono)
- 1 x Rockville RCTR106R 6' 1/4" TRS to 1/4" TRS Balanced Cable (Red, 100% Copper)
- Microphone Cables (10 ft 3.5mm jack to XLR, 10 ft XLR to XLR)
- Owners Manuals for individual components
- Warranty Cards

4. SETUP

4.1 Mackie ProFX12v3 Mixer

The Mackie ProFX12v3 is a 12-channel professional effects mixer with USB capabilities. It features Onyx mic preamps, single-knob compression, and 24 built-in effects.



Image: Top view of the Mackie ProFX12v3 mixer, showing all channels, controls, and the main output section.



Image: Angled view of the Mackie ProFX12v3 mixer, highlighting the faders and overall compact design.



Image: Rear panel of the Mackie ProFX12v3 mixer, showing the power input, power switch, and USB-B port.

1. **Power Connection:** Connect the provided power cable to the mixer's power input on the rear panel. Plug the other end into a suitable AC outlet.
2. **USB Connection:** For computer recording and playback, connect a USB cable from the mixer's USB-B port to your computer's USB port.
3. **Main Outputs:** Connect your studio monitors or PA system to the MAIN OUTS (XLR or 1/4" TRS) on the mixer.
4. **Input Channels:** Connect microphones to the XLR inputs and line-level instruments/devices to the 1/4" TRS/TS inputs.

4.2 Rockville RCM03 Pro Studio Recording Condenser Microphone

The RCM03 is a large-diaphragm condenser microphone designed for studio recording, featuring a cardioid polar pattern.



Image: Rockville RCM03 microphone with pop filter, shock mount, and cables.





Image: Close-up view of the Rockville RCM03 condenser microphone.

1. **Mounting:** Attach the RCM03 microphone to the included metal shock mount.
2. **Boom Arm:** Secure the shock mount to the Rockville DMS40 40" Microphone Boom Arm. Clamp the boom arm to a sturdy desk or surface.
3. **Connection:** Use the provided XLR to XLR cable to connect the RCM03 microphone to an XLR input on the Mackie ProFX12v3 mixer. Ensure phantom power (+48V) is enabled on the mixer channel for the condenser microphone to operate.

4.3 Rockville PRO-M50 Studio Headphones

The PRO-M50 headphones are designed for studio monitoring, offering comfort and accurate sound reproduction.





Image: Rockville PRO-M50 headphones with carrying case, detachable cable, and extra ear pads.



Image: Top view of the Rockville PRO-M50 studio headphones.

1. **Cable Connection:** Connect the detachable coil cable to the PRO-M50 headphones.
2. **Mixer Connection:** Plug the 1/4" end of the headphone cable into the PHONES output on the Mackie ProFX12v3 mixer or into one of the outputs on the RHPA4 headphone amplifier.

4.4 Rockville RHPA4 4-Channel Professional Headphone Amplifier

The RHPA4 allows for distribution of a single audio signal to up to four pairs of headphones, each with independent level control.



Image: Front panel of the Rockville RHPA4 4-channel headphone amplifier, showing level controls and outputs.

1. **Power:** Connect the RHPA4 to its power supply.
2. **Input:** Connect the Mackie ProFX12v3 mixer's PHONES or CONTROL ROOM output to the input of the RHPA4 using a 1/4" TRS cable (like the RCTR106R).
3. **Headphone Outputs:** Plug up to four pairs of PRO-M50 headphones into the individual outputs (CH1-CH4) on the RHPA4.

5. OPERATING INSTRUCTIONS

5.1 Mackie ProFX12v3 Mixer Operation

The ProFX12v3 mixer offers a range of features for audio mixing and processing.

- **Onyx Mic Preamps:** Each microphone input features an Onyx preamp with up to 60dB of gain. Adjust the GAIN knob for optimal input level.
- **Single-Knob Compression:** Channels 1-4 include single-knob compressors. Turn the COMP knob clockwise to increase compression for dynamic control.
- **Equalization (EQ):** Each channel has a 3-band EQ (High, Mid, Low) to shape the tone of your audio.
- **GigFX Effects Engine:** The mixer includes 24 built-in effects. Use the FX SELECT knob to choose an effect and the FX LEVEL knob to adjust its intensity. Effects include various reverbs (Bright Room, Warm Lounge, Small Stage, Bright Plate, Chorus Reverb), delays (Mono Delay, Stereo Delay, Delay Reverb), and modulation effects (Chorus, Flanger, Rotary, Auto Wah).
- **USB Audio Interface:** The 2x4 24-Bit/192kHz USB I/O allows for high-resolution recording to and playback from your computer. The ANALOG INPUT/USB RETURN BLEND knob controls the mix between live input and USB playback for monitoring.
- **Software Integration:** The bundle includes licenses for Pro Tools First DAW, 23 Pro Tools plug-ins (e.g., Avid 304E EQ, Avid 304C Compressor, BBD Delay, Black Op Distortion, Black Shiny Wah, Black Spring Reverb, C1 Chorus, DC Distortion, Eleven Lite, Flanger, Graphic EQ, Gray Compressor, Green JRC Overdrive, In-

Tune, Orange Phaser, Roto Speaker, Sci-Fi, Studio Reverb, Tape Echo, Tri Knob Fuzz, Vari-Fi, Vibe Phaser, White Boost), Waveform OEM DAW, and the DAW Essentials Collection of 16 FX plug-ins. Install these on your computer for advanced recording and mixing capabilities.

5.2 Rockville RCM03 Microphone Usage

Position the RCM03 microphone approximately 6-12 inches from the sound source for optimal recording. The cardioid pattern is most sensitive to sounds directly in front of the microphone, minimizing background noise.

5.3 Rockville PRO-M50 Headphones Usage

Adjust the headband for a comfortable fit. Use the volume control on the mixer or headphone amplifier to set a safe listening level. The PRO-M50 headphones are designed for accurate monitoring during recording and mixing.

5.4 Rockville RHPA4 Headphone Amplifier Usage

Once connected, use the individual LEVEL CONTROLS (CH1-CH4) on the RHPA4 to adjust the volume for each connected pair of headphones independently. This is useful for multiple performers or engineers needing different monitoring levels.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the surfaces of all components. Do not use liquid cleaners or solvents.
- **Storage:** Store the equipment in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Avoid bending cables sharply or placing heavy objects on them. Disconnect cables by pulling the plug, not the cable itself.
- **Microphone Care:** Keep the microphone covered when not in use to protect it from dust and moisture.
- **Headphone Ear Pads:** The PRO-M50 headphones come with extra ear pads. Replace them if the original pads become worn or damaged for continued comfort and hygiene.

7. TROUBLESHOOTING

- **No Power to Mixer:** Ensure the power cable is securely connected to both the mixer and a working power outlet. Check the power switch on the rear panel.
- **No Sound from Mixer Outputs:** Verify that main faders are up, channel faders are up, and input gain is set correctly. Check connections to monitors/PA system. Ensure MUTE buttons are not engaged.
- **Microphone Not Working:** For condenser microphones like the RCM03, ensure +48V phantom power is enabled on the mixer channel. Check XLR cable connections.
- **No Sound in Headphones:** Check headphone cable connection to the mixer or RHPA4. Ensure the PHONES level on the mixer or individual channel levels on the RHPA4 are turned up.
- **USB Recording/Playback Issues:** Ensure the USB cable is connected properly. Check your computer's audio settings to confirm the Mackie ProFX12v3 is selected as the input/output device. Install necessary drivers if prompted by your operating system.
- **Distorted Audio:** Reduce input gain on channels or main output level. Check for clipping indicators (red LEDs) on channels or main meters.

8. SPECIFICATIONS

8.1 Mackie ProFX12v3 Mixer

- **Number of Channels:** 12
- **Mic Preamps:** 7 Onyx preamps with 60dB gain
- **Single Knob Compressors:** 4 channels
- **FX Section:** 24 GigFX effects
- **USB Recording:** 2x4 24-bit / 192kHz high-resolution
- **Connectivity:** USB
- **Power Source:** Corded Electric (100-240V~ 50-60Hz)
- **Audio Input:** XLR
- **Noise Level:** 60 Decibels (preamp)

8.2 Rockville RCM03 Pro Studio Recording Condenser Microphone

- **Construction:** Aluminum
- **Polar Pattern:** Internally Polarized Condenser Cardioid
- **Diaphragm:** Large
- **Power Requirements:** 48V DC phantom power or computer sound card
- **Sensitivity:** -27dB \pm 2dB (0dB=1V/Pa at 1kHz)
- **Output Impedance:** 200 Ω (at 1kHz)
- **Standard Operating Voltage:** 3V
- **Operating Voltage Range:** 1.5V-10V

8.3 Rockville PRO-M50 Studio Headphones

- **Type:** Over-ear, closed-back
- **Cable:** Detachable coil cable
- **Accessories:** Carrying case, extra ear pads

8.4 Rockville RHPA4 4-Channel Professional Headphone Amplifier

- **Channels:** 4 independent stereo/mono channels
- **Controls:** Individual level control per channel

9. WARRANTY AND SUPPORT

This product bundle is covered by the manufacturer's warranty. Please refer to the warranty card included with your purchase for specific terms and conditions. For technical support, troubleshooting assistance, or warranty claims, please contact the respective manufacturers:

- **Mackie:** Visit the official Mackie website for support resources, FAQs, and contact information.
- **Rockville:** Visit the official Rockville website for support resources, FAQs, and contact information.

Keep your purchase receipt as proof of purchase for warranty purposes.