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**Mackie 1402VLZ Pro**

# Mackie 1402VLZ PRO Mixer User Manual

Model: 1402VLZ Pro

## 1. Introduction

Welcome to the user manual for your Mackie 1402VLZ PRO 14-Channel Mixer. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your mixer to ensure optimal performance and longevity. The 1402VLZ PRO is designed for professional audio applications, offering studio-grade preamps and robust construction.

Key features include ultra-low noise XDR (Extended Dynamic Range) premium studio-grade mic preamps, 60mm long-wearing log-taper faders, and a 3-band active EQ. Its compact design and durable steel chassis make it suitable for various environments, from home studios to live sound setups.

## 2. Important Safety Instructions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with 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.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 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. Setup and Connections

Proper setup is crucial for optimal performance of your Mackie 1402VLZ PRO mixer. Follow these steps to connect your equipment.

### 3.1 Unpacking and Inspection

Carefully remove the mixer from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. Retain the original packaging for future transport or storage.

### 3.2 Power Connection

The 1402VLZ PRO features a built-in power supply. Connect the provided AC power cord to the mixer's power inlet and then to a grounded electrical outlet. Ensure the power switch is in the OFF position before connecting.
**Note:** The mixer uses a standard IEC power cable. Do not use unapproved power cables.

### 3.3 Input Connections

The mixer provides 14 line inputs, including 6 mono channels and 4 stereo pairs. It also features 6 XDR mic preamps.

- **Microphone Inputs (Channels 1-6):** Use XLR cables to connect microphones to the XLR inputs. These channels feature Mackie's XDR mic preamps.
- **Line Inputs (Channels 1-14):** Use 1/4-inch TRS or TS cables for line-level instruments or devices. Channels 1-6 have dedicated 1/4-inch line inputs, while channels 7-14 are stereo pairs.
- **Tape/CD Inputs:** Connect external playback devices (e.g., CD player, tape deck) to the RCA-type tape/CD inputs.




Image: Overview of the Mackie 1402VLZ PRO mixer showing all input and output sections, faders, and control knobs. This image provides a comprehensive view of the mixer's layout, including the microphone and line inputs at the top, the main faders at the bottom, and the EQ and auxiliary controls in the middle.

## 3.4 Output Connections

Connect your monitoring and recording devices to the mixer's outputs.

- **Main Outputs (XLR):** Connect these balanced XLR outputs to your main PA system, studio monitors, or recording interface.
- **Control Room/Phones Outputs:** Use these 1/4-inch outputs for connecting control room monitors or headphones.
- **Aux Sends:** Connect these 1/4-inch outputs to external effects processors or monitor wedges.
- **Tape Outputs:** Use the RCA-type tape outputs to send the main mix to a recording device.
- **ALT 3-4 Outputs:** These 1/4-inch outputs provide an additional stereo bus for submixes or alternative feeds.




Image: Detailed view of the Mackie 1402VLZ PRO mixer's main output section, including the XLR main outputs, 1/4-inch phone jack, and associated level controls. This image highlights the connectivity options for main audio output and personal monitoring.

## 4. Operating Instructions

This section details the functions of the Mackie 1402VLZ PRO mixer's controls and how to operate them effectively.

### 4.1 Channel Strip Controls

- **Gain/Trim Knob:** Adjusts the input sensitivity for each channel. Set this to achieve a healthy signal level without clipping.
- **Lo Cut Filter (75Hz):** Engages an 18dB/octave high-pass filter at 75Hz to remove unwanted low-frequency rumble.
- **EQ Section:**
  - **High (12kHz):** Adjusts the treble frequencies.
  - **Mid (2.5kHz):** Adjusts the mid-range frequencies.
  - **Low (80Hz):** Adjusts the bass frequencies.

- **Aux Sends (Aux 1, Aux 2):** Controls the amount of signal sent from the channel to the auxiliary outputs. Aux 1 is pre/post switchable.
- **Pan Knob:** Positions the channel's signal in the stereo field (left to right).
- **Mute Button:** Mutes the channel's signal from the main mix and aux sends.
- **Solo Button (AFL/PFL):** Sends the channel's signal to the solo bus for monitoring through headphones or control room outputs, without affecting the main mix.
- **Channel Fader:** Controls the overall level of the channel in the main mix.

### 4.2 Master Section Controls

- **Aux 1 Master:** Controls the overall level of the Aux 1 send.
- **Aux Returns:** Controls the level of signals returning from external effects processors connected to the Aux Returns.
- **Control Room/Phones Source Matrix:** Selects which signal (Main Mix, Tape, ALT 3-4) is sent to the control room and headphone outputs.
- **Main Mix Faders:** Controls the overall output level of the main stereo mix.
- **Phantom Power (+48V):** Engages phantom power for condenser microphones connected to the XLR inputs.
- **Level Meters:** Provides visual indication of the main mix output level.

## 5. Maintenance and Care

Proper maintenance ensures the longevity and reliable operation of your Mackie 1402VLZ PRO mixer.

### 5.1 Cleaning

Regularly clean the mixer's surface with a soft, dry, lint-free cloth. For stubborn dirt, a slightly damp cloth can be used, but ensure no liquid enters the unit. Avoid abrasive cleaners, solvents, or waxes.
Keep faders and rotary controls free from dust and debris. Compressed air can be used carefully to clear dust from crevices.

### 5.2 Storage and Transport

When not in use, store the mixer in a cool, dry environment, away from direct sunlight and extreme temperatures. If transporting the mixer, use appropriate protective cases or the original packaging to prevent damage.

### 5.3 General Care

- Avoid spilling liquids on the mixer.
- Do not place heavy objects on top of the mixer.
- Ensure proper ventilation to prevent overheating.
- Periodically check all cable connections for secure fit.

## 6. Troubleshooting

This section provides solutions to common issues you might encounter with your Mackie 1402VLZ PRO mixer. If the problem persists, contact Mackie support.

| Problem | Possible Cause | Solution |
| --- | --- | --- |

| Problem | Possible Cause | Solution |
|---|---|---|
| No sound output from main mix. | Main mix faders are down.<br>Output cables are disconnected or faulty.<br>Mute buttons engaged on channels or main.<br>Power not connected or unit off. | Raise main mix faders.<br>Check and secure all output cables.<br>Disengage any active mute buttons.<br>Ensure power is connected and unit is on. |
| No sound from a specific channel. | Channel fader is down.<br>Input cable is disconnected or faulty.<br>Gain knob set too low.<br>Channel mute button engaged.<br>Incorrect input selected (e.g., line vs. mic). | Raise channel fader.<br>Check and secure input cable.<br>Increase gain until signal is present on meters.<br>Disengage channel mute.<br>Ensure correct input type is used for the source. |
| Hum or noise in the audio. | Ground loop.<br>Faulty cables.<br>Interference from other electronic devices.<br>Gain set too high. | Check grounding of all equipment. Use balanced cables where possible.<br>Replace suspect cables.<br>Move mixer away from power supplies or other noisy electronics.<br>Reduce gain to appropriate levels. |
| Phantom power not working. | Phantom power switch is off.<br>Microphone not compatible with phantom power.<br>Faulty XLR cable. | Ensure +48V phantom power switch is engaged.<br>Verify microphone requires phantom power.<br>Test with a known good XLR cable. |

## 7. Technical Specifications

Below are the key technical specifications for the Mackie 1402VLZ PRO Mixer.

- **Model:** 1402VLZ Pro
- **Channels:** 14 (6 mono, 4 stereo pairs)
- **Mic Preamps:** 6 x XDR (Extended Dynamic Range)
- **Gain Range (Mic Preamps):** 0-60dB
- **Dynamic Range (Mic Preamps):** 130dB
- **EQ:** 3-band active (80Hz, 2.5kHz, 12kHz)
- **Lo Cut Filter:** 18dB/octave, 75Hz
- **Faders:** 60mm long-wearing log-taper
- **Aux Sends:** 2 (Aux 1 pre/post switchable)
- **Aux Returns:** 2 stereo
- **Additional Buses:** ALT 3-4 stereo bus
- **Phantom Power:** +48V
- **Main Outputs:** Balanced XLR L/R
- **Tape I/O:** RCA-type (unbalanced)

- **Dimensions:** 16 x 16 x 6 inches (approximate)
- **Weight:** 10 pounds (approximate)
- **Power Source:** Corded Electric (Built-in power supply)

## 8. Warranty Information

Mackie products are designed for reliability and performance. For detailed warranty information, please refer to the warranty card included with your product or visit the official Mackie website. Typically, Mackie offers a limited warranty covering defects in materials and workmanship under normal use.
**Note:** Protection plans are available for purchase separately and are not part of the standard manufacturer's warranty. Refer to the terms and conditions of any purchased protection plan for coverage details.

## 9. Customer Support

For technical assistance, service, or further inquiries regarding your Mackie 1402VLZ PRO Mixer, please contact Mackie customer support.

- **Mackie Official Website:** www.mackie.com (for product registration, FAQs, and support resources)
- **Online Support:** Check the support section on the Mackie website for contact forms, phone numbers, and email addresses specific to your region.

When contacting support, please have your product model number (1402VLZ Pro) and serial number ready.

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