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› [Lane](#) /

› [Lane PMX-402DU Professional Stereo Power Mixer User Manual](#)

Lane PMX-402DU

Lane PMX-402DU Professional Stereo Power Mixer User Manual

Model: PMX-402DU

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your Lane PMX-402DU Professional Stereo Power Mixer. Please read this manual thoroughly before using the device to ensure proper setup, operation, and maintenance. Retain this manual for future reference.

2. SAFETY INSTRUCTIONS

To prevent electric shock, fire, or damage to the unit, please observe the following safety precautions:

- **Power Source:** Connect the unit only to the specified AC voltage as indicated on the rear panel. Ensure the power cord is securely plugged into a grounded outlet.
- **Water and Moisture:** Do not expose the unit to rain or moisture. Do not place objects filled with liquids, such as vases, on the unit.
- **Ventilation:** Ensure adequate ventilation. Do not block ventilation openings. Install the unit in a location with proper airflow to prevent overheating.
- **Heat Sources:** Do not place the unit near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel. Opening the unit may expose you to dangerous voltages or other hazards.
- **Cleaning:** Unplug the unit from the power outlet before cleaning. Use a dry cloth only.
- **Overloading:** Do not overload wall outlets or extension cords as this can result in a risk of fire or electric shock.

CAUTION: RISK OF ELECTRIC SHOCK. DO NOT OPEN.

This symbol indicates the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

3. PRODUCT OVERVIEW

3.1. Front Panel Controls and Connectors

The front panel provides access to all input channels, main output controls, effects, and the graphic equalizer.



Image 3.1: Front view of the Lane PMX-402DU Professional Stereo Power Mixer. This image displays the mixer's top surface, featuring four input channels with XLR and 1/4-inch jack inputs, gain controls, 3-band EQ, effect send, and channel faders. On the right, there are master controls for effects, a 5-band graphic equalizer, main output faders, and a USB/MP3 player section.

1. **XLR/TRS Combo Inputs:** For microphones or line-level instruments.
2. **GAIN Control:** Adjusts the input sensitivity for each channel.
3. **HIGH/MID/LOW EQ:** 3-band equalizer for tone shaping on each channel.
4. **EFF Send:** Controls the amount of signal sent to the internal effects processor.
5. **Channel Fader:** Adjusts the volume level of each individual channel.
6. **EFFECT Section:** Controls for the built-in digital multi-effects processor.
7. **GRAPHIC EQUALIZER:** 5-band stereo graphic equalizer for main output.
8. **MAIN Faders:** Controls the overall output volume of the mixer.
9. **USB/MP3 Player:** Interface for playing audio from USB drives.

10. **Headphone Output:** 1/4-inch jack for monitoring.

3.2. Rear Panel Connections

The rear panel houses the power input and main speaker outputs.



Image 3.2: Rear view of the Lane PMX-402DU Professional Stereo Power Mixer. This image shows the back of the unit, featuring the main power switch, AC input with fuse holder, and two 1/4-inch jack speaker outputs labeled "RIGHT" and "LEFT". A ventilation grille is also visible.

1. **POWER Switch:** Turns the unit on or off.
2. **AC INPUT/FUSE:** Power cord connection and fuse holder.
3. **SPEAKER OUTPUTS (LEFT/RIGHT):** 1/4-inch jack outputs for connecting passive speakers.

4. SETUP

4.1. Power Connection

1. Ensure the mixer's POWER switch is in the OFF position.
2. Connect the supplied AC power cord to the AC INPUT on the rear panel of the mixer.
3. Plug the other end of the power cord into a suitable grounded AC power outlet.

4.2. Input Connections

Connect your audio sources to the input channels on the front panel.

- **Microphones:** Use XLR cables to connect dynamic microphones to the XLR inputs.
- **Instruments/Line-level Devices:** Use 1/4-inch TS or TRS cables to connect instruments (e.g., keyboards, guitars with DI boxes) or other line-level devices (e.g., CD players, media players) to the 1/4-inch jack inputs.

4.3. Output Connections

Connect your passive speakers to the SPEAKER OUTPUTS on the rear panel.

- Use appropriate speaker cables with 1/4-inch TS connectors.
- Connect the LEFT output to your left speaker and the RIGHT output to your right speaker.
- Ensure the impedance of your speakers matches the mixer's output impedance (4Ω).

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

1. Before powering on, ensure all channel faders and the MAIN faders are set to their minimum (lowest) positions.
2. Flip the POWER switch on the rear panel to the ON position.
3. To power off, first lower all faders, then flip the POWER switch to the OFF position.

5.2. Channel Control

1. **GAIN:** Adjust the GAIN control for each input channel until the signal peak indicator (if present) flashes only occasionally. This sets the optimal input level.
2. **EQ:** Use the HIGH, MID, and LOW controls to shape the tone of each input source.
3. **EFF Send:** Turn the EFF Send knob clockwise to send a portion of the channel's signal to the internal effects processor.
4. **Channel Fader:** Slowly raise the channel fader to bring the signal into the mix.

5.3. Main Output Control

After setting individual channel levels, slowly raise the MAIN faders (LEFT and RIGHT) to achieve the desired overall output volume.

5.4. Effect Processor

The mixer features a built-in digital multi-effects processor. Use the controls in the EFFECT section to select and adjust the desired effect (e.g., reverb, delay). The EFF Send knobs on individual channels determine how much of each channel's signal is processed.

5.5. Graphic Equalizer

The 5-band graphic equalizer allows for fine-tuning the overall frequency response of the main mix. Adjust the sliders to boost or cut specific frequency bands to suit your acoustic environment or preference.

5.6. USB/MP3 Player

Insert a USB flash drive containing MP3 audio files into the USB port. Use the controls in the USB/MP3 Player section to play, pause, skip tracks, and adjust the volume of the playback.

6. MAINTENANCE

- **Cleaning:** Disconnect the power before cleaning. Use a soft, dry cloth to wipe the exterior of the mixer. Do not use liquid cleaners or aerosols.
- **Storage:** When not in use for extended periods, store the mixer in a cool, dry place, away from direct sunlight and extreme temperatures. Cover the unit to protect it from dust.
- **Fuse Replacement:** If the unit does not power on, check the fuse located in the AC INPUT/FUSE holder on the rear panel. Replace with a fuse of the same type and rating only.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cord not connected; Power switch off; Blown fuse	Check power cord connection; Ensure power switch is ON; Replace fuse with correct type and rating.

Problem	Possible Cause	Solution
No sound from speakers	Speaker cables not connected; Main faders down; Channel faders down; GAIN too low; Speakers not powered (if active)	Check speaker connections; Raise MAIN faders; Raise channel faders; Adjust GAIN; Ensure active speakers are powered on.
Distorted sound	GAIN too high; Channel fader too high; MAIN faders too high; Incorrect impedance match	Reduce GAIN; Lower channel faders; Lower MAIN faders; Verify speaker impedance (4Ω).
No effect sound	EFF Send knob down; Effect level down; Effect not selected	Increase EFF Send on channel; Adjust effect level in EFFECT section; Select an effect program.

8. SPECIFICATIONS

Model	PMX-402DU
Output Power	150W + 150W (at 4Ω)
Power Consumption	150W
Total Harmonic Distortion (T.H.D)	0.03% (1kHz full power)
Number of Channels	4
Dimensions (L x W x H)	370 x 345 x 175 mm
Item Weight	11 kg
Power Source	Corded Electric

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your authorized Lane dealer. Keep your proof of purchase for warranty claims.