

MUSYSIC MU-PAS12

MUSYSIC MU-PAS12 Portable PA System Instruction Manual

Model: MU-PAS12

1. INTRODUCTION

Thank you for choosing the MUSYSIC MU-PAS12 Portable PA System. This system is designed to provide clear and powerful audio for various events, including live performances, parties, presentations, and worship services. This manual will guide you through the setup, operation, maintenance, and troubleshooting of your new PA system.

Included Components:

- 1 x Powered 6-Channel Mixer
- 2 x 12" Passive PA Speakers
- 1 x Dual UHF Wireless Microphone System (Receiver and 2 Handheld Microphones)
- 2 x 25ft 1/4" to Speakon Speaker Cables
- 2 x Heavy-Duty Tripod Speaker Stands

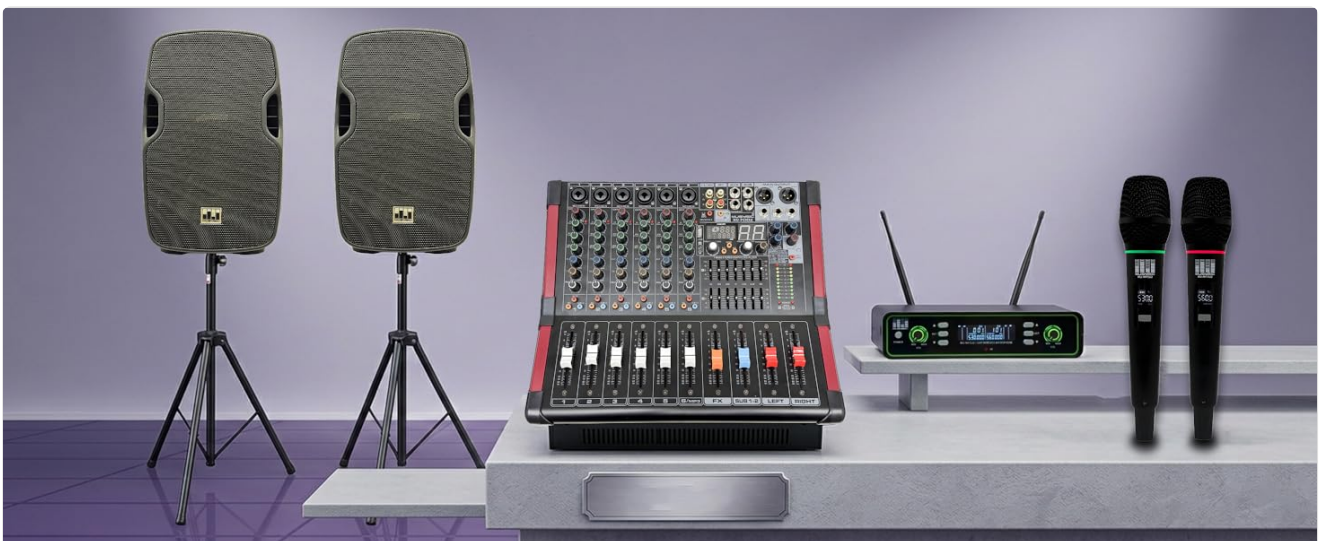


Figure 1.1: Overview of the MUSYSIC MU-PAS12 Portable PA System components.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the system. Retain this manual for future reference.

- **Power Source:** Connect the system only to the specified voltage and frequency as indicated on the unit. Ensure the power outlet is properly grounded.
- **Water and Moisture:** Do not expose the system to rain, moisture, or excessive humidity. Do not place objects filled with liquids on or near the unit.
- **Ventilation:** Ensure adequate ventilation around the mixer and speakers. Do not block ventilation openings.
- **Heat:** Keep the system away from heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
- **Cables:** Protect power cords from being walked on or pinched. Do not operate the system with damaged power cords or plugs.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Speaker Stands:** Ensure speaker stands are properly assembled and stable before mounting speakers. Do not exceed the weight capacity of the stands.
- **Hearing Protection:** Prolonged exposure to high volume levels can cause permanent hearing damage. Use appropriate hearing protection when operating the system at high volumes.

3. COMPONENTS OVERVIEW

3.1 Powered 6-Channel Mixer

The heart of your PA system, this mixer features a built-in amplifier, multiple input channels, DSP effects, and equalization for precise sound control.



Figure 3.1: Front and rear panel controls and connections of the 6-channel mixer.

3.2 12" Passive PA Speakers

These 12-inch full-range passive speakers deliver clear, wide-dispersion sound. They are designed for stand-mounting and feature durable ABS cabinets.

- 12" Woofer with 2.5" KSV Voice Coil and 40oz Magnet
- Pure Titanium Compression Driver with 1.35" Coil
- Frequency Response: 45Hz – 18kHz
- Wide Dispersion Horn for Even Coverage

- Flyable and Stand-Mountable ABS Cabinet
- Speakon Input & Output Jacks
- 8-Ohm Impedance



Figure 3.2: Details of the 12-inch passive PA speaker.

3.3 Dual UHF Wireless Microphone System

The system includes two handheld UHF wireless microphones and a receiver for clear vocal performance without cables.

- 500-580 MHz UHF Band
- 2 Handheld Wireless Microphones
- Receiver with LCD Display and Dual Antennas
- XLR Outputs for Each Channel + 1/4" Mixed Output
- Dynamic Mic Capsules with Clear Vocal Response
- Wide 60Hz-14kHz Audio Frequency Response



Figure 3.3: Dual UHF Wireless Microphone System.

3.4 Speaker Cables

Two 25ft 1/4" to Speakon speaker cables are provided for connecting the mixer to the passive speakers.

- Heavy-Duty 14 AWG Copper Speaker Cables
- 25-Foot Length for Flexible Placement

- 1/4" TS to Speakon (NL4-Style) Connectors
- Rugged Rubber-Insulated Jacket
- Low-Noise, Interference-Free Performance



Figure 3.4: Speaker cables included with the system.

3.5 Heavy-Duty Tripod Speaker Stands

A pair of adjustable tripod stands is included to elevate the speakers for optimal sound dispersion.

- 200 lb Capacity
- 35mm (1 3/8") Pole Mounts
- Adjustable from 41" to 76" Height
- Die-Cast Leg Housing for Maximum Stability
- Safety Pin Locking System
- Lightweight and Portable (~8 lbs each)



Figure 3.5: Heavy-Duty Tripod Speaker Stands.

4. SETUP INSTRUCTIONS

Follow these steps to set up your MUSYSIC MU-PAS12 Portable PA System.

4.1 Speaker Stand Assembly and Placement

1. Unfold the legs of each tripod speaker stand until they are fully extended and stable.
2. Adjust the height of the stands to your desired level, ensuring the safety pin is securely engaged.
3. Place the speakers onto the pole mounts of the stands. Ensure they are seated firmly and safely.
4. Position the speakers in your desired location, typically facing the audience, and ensure they are stable and not easily tipped over.

4.2 Mixer and Speaker Connections

1. Place the 6-channel mixer on a stable, flat surface.
2. Connect one end of a 25ft 1/4" to Speakon speaker cable to the speaker output on the mixer (e.g., 'LEFT' or 'RIGHT').
3. Connect the Speakon end of the same cable to the input jack on one of the 12" passive PA speakers.
4. Repeat for the second speaker and the other speaker output on the mixer.
5. Connect the mixer's power cable to a suitable AC power outlet. **Do not power on the mixer yet.**

4.3 Wireless Microphone System Setup

1. Connect the wireless microphone receiver to the mixer using an XLR cable (not included) or a 1/4" cable. Connect the receiver's output to an available input channel on the mixer.
2. Extend the antennas on the wireless microphone receiver for optimal signal reception.
3. Insert fresh batteries into the handheld wireless microphones.
4. Power on the wireless microphone receiver and microphones. Follow the receiver's instructions to pair the microphones if necessary.

4.4 Initial Power-On

1. Ensure all volume controls on the mixer are set to their minimum (down) position.
2. Power on the mixer.
3. Gradually increase the main volume and individual channel volumes to a low listening level.
4. Test each input (microphones, music sources) to confirm sound output.

5. OPERATING INSTRUCTIONS

This section details how to operate the various functions of your MUSYSIC MU-PAS12 PA System.

5.1 Mixer Controls

- **Gain Control:** Adjusts the input sensitivity for each channel. Set this to achieve a strong signal without clipping (distortion).
- **Equalization (EQ):** The mixer features a 7-band stereo graphic EQ for overall sound shaping and individual channel high/low band controls. Adjust these to optimize the sound for your environment and audio source.
- **DSP Effects:** The mixer includes 99 DSP effects. Use the parameter control to fine-tune effects like reverb and delay. Apply effects to individual channels using the FX send controls.
- **Channel Faders:** Control the volume level of each individual input channel.
- **Main Volume:** Controls the overall output volume of the PA system.
- **Phantom Power (+48V):** Activates phantom power for condenser microphones on XLR inputs.

5.2 Bluetooth Connectivity

1. Activate Bluetooth mode on the mixer (refer to the mixer's display or mode button).
2. On your mobile device (smartphone, tablet), enable Bluetooth and search for available devices.
3. Select "MUSYSIC" or a similar name displayed by the mixer to pair.

4. Once paired, you can stream audio wirelessly from your device to the PA system. Adjust the Bluetooth channel volume on the mixer.

5.3 USB and MP3 Playback

1. Insert a USB drive or SD card containing MP3 audio files into the designated slot on the mixer.
2. Select USB/MP3 mode on the mixer.
3. Use the playback controls (play, pause, skip) on the mixer to manage your audio. Adjust the USB/MP3 channel volume.

5.4 Video Overview

Watch this video for a visual overview of the MUSYSIC MU-PAS12 PA System.

Video 5.1: A brief showcase of the MUSYSIC MU-PAS12 Portable PA System, demonstrating its components and features.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your PA system.

6.1 Cleaning

- Always disconnect the power before cleaning.
- Use a soft, dry cloth to wipe down the surfaces of the mixer, speakers, and microphones.
- For stubborn dirt, a slightly damp cloth with mild soap can be used, followed by a dry cloth. Avoid harsh chemicals or abrasive cleaners.
- Use a soft brush or compressed air to clean dust from ventilation grilles and control knobs.

6.2 Storage

- Store the system in a cool, dry place away from direct sunlight and extreme temperatures.
- If possible, use original packaging or protective covers to prevent dust and physical damage.
- Remove batteries from wireless microphones if storing for extended periods to prevent leakage.

6.3 Cable Care

- Avoid kinking or sharply bending cables.
- Coil cables neatly after use to prevent tangling and damage.
- Inspect cables regularly for cuts, fraying, or damaged connectors. Replace damaged cables immediately.

7. TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
No sound output	Power not connected; Master volume low; Channel volume low; Speaker cables disconnected or faulty.	Check power connection; Increase master and channel volumes; Verify speaker cable connections; Test with different cables.
Wireless microphone not working	Microphone off; Low batteries; Receiver off; Microphone not paired; Interference.	Turn on microphone; Replace batteries; Turn on receiver; Re-pair microphone with receiver; Move away from other wireless devices.

Problem	Possible Cause	Solution
Bluetooth not connecting	Bluetooth mode not active; Device too far; Already paired to another device.	Activate Bluetooth mode on mixer; Ensure device is within range; Disconnect from other devices; Try re-pairing.
Distorted sound	Input gain too high; Master volume too high; Faulty cable.	Reduce input gain; Lower master volume; Test with different cables.

8. SPECIFICATIONS

Key technical specifications for the MUSYSIC MU-PAS12 Portable PA System.

Feature	Detail
Brand	MUSYSIC
Model Number	MU-PAS12 (Mfr Part Number: PA-SYS10)
Output Wattage	4000 Watts (Peak)
Number of Channels	6
Frequency Response	45Hz – 18kHz (Speakers)
Connectivity Technology	AUX, Bluetooth, USB
Audio Input	GOLD PLATED Mono XLR, Speakon Input, USB Line, AUX inputs
Compatible Devices	MP3 Player, Tablet, Smartphone, CD player, iPod, iPad
Mounting Type	Pole Mount
Power Source	Corded Electric (AC power required)
Item Dimensions (L x W x H)	25 x 18 x 22 inches (Overall package)
Item Weight	80 Pounds (Total package)
Enclosure Material	Plastic (Speakers)

9. WARRANTY INFORMATION

The MUSYSIC MU-PAS12 Portable PA System comes with a **1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the documentation provided with your product or contact MUSYSIC customer support.

10. CUSTOMER SUPPORT

If you encounter any issues or have questions regarding your MUSYSIC MU-PAS12 Portable PA System that are not

addressed in this manual, please contact MUSYSIC customer support for assistance.
Contact information can typically be found on the MUSYSIC official website or on your product packaging.