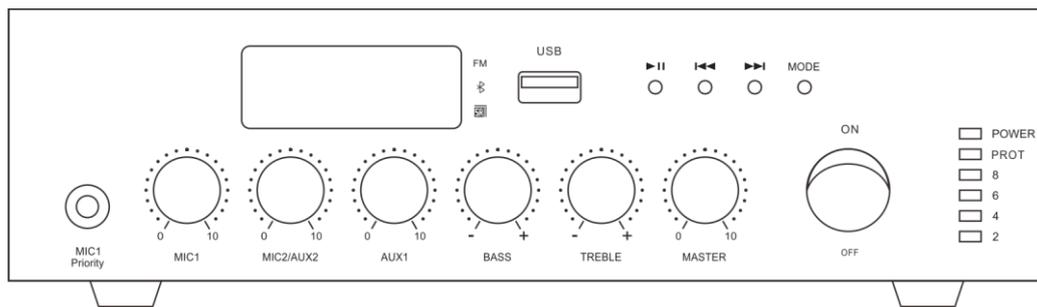# ALF-250W-UB Mini Mixer Amplifier

User Manual

Safety Precautions

1. Safety Precautions

Warning! **To reduce the risk of electric shock or equipment damage, please follow the following requirements:**

● Please do NOT connect this device to the power source, before the system is correctly connected.

● It is important to ensure that input voltage to the device is the same as required voltage of the device; otherwise the device may be damaged.

● There is dangerous voltage in the device, which may cause personal electric shock. Please do NOT open the case without permission, to avoid potential risks of electric shock.

● The device is not completely disconnected from power source when it is switched "OFF". For sake of safety, please disconnect the device from the socket if it is not in use.

● Please do NOT place the device where it is extremely cold or hot.

● Good ventilation must be provided in the working environment of the device, to avoid excessive temperature during its operation, which may cause damages to the device.

● Please unplug the device from power socket in raining and wet days or if it is not in use for a long time.

● Please disconnect the power plug from sockets, to ensure the device has been completely disconnected from power source, before any component is removed from or re-installed in the device or before any electric connector of the device is disconnected or reconnected.

● In case of any failure of the device, please do NOT open the case and repair without permission from a professional personnel, to avoid accident or additional damages to the device.

● Please do NOT place any corrosive chemicals near or on the device.

Please note the following symbols:

The lightning triangular symbol is used to alert the user to the risk of electric shock.

The exclamation point triangle symbol is used to alert the user to important operational or maintenance instructions.

CONTENT

Introduction

Thanks for using our products. All our products are tested strictly before leaving the factory, with guaranteed quality. Our products are widely used in such places as schools, gymnasiums, square halls, parks, parking lots, railway stations, airports, villa communities and mall supermarkets, etc., and they will be your ideal choice for public address system.
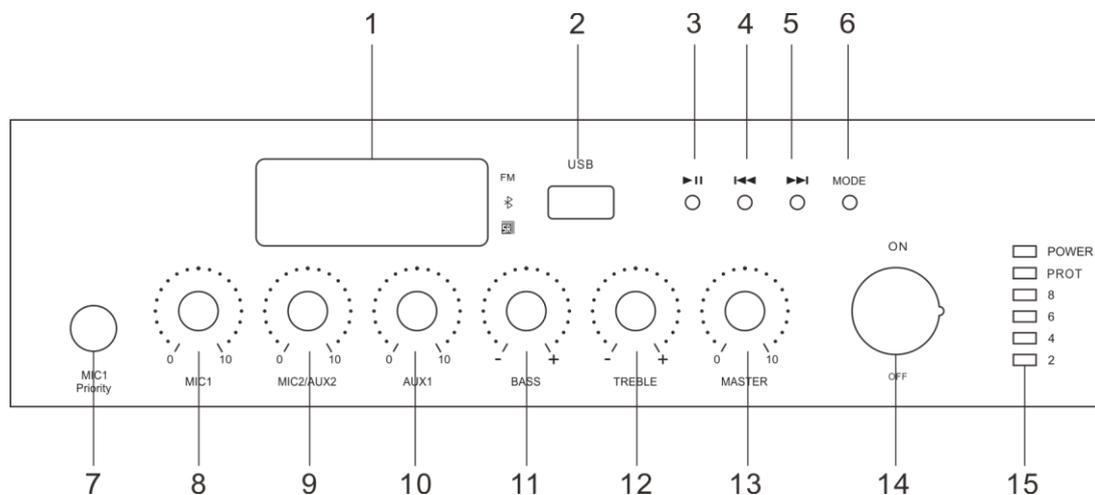
For better installation, commissioning and use of the product, please read this manual in detail before installation.

Product Overview

Product Features

● Built-in Bluetooth, radio and USB function.

● 2 MIC IN, 2 EMC IN, 2 LINE IN, 1 LINE OUT.

● 100V or 70V constant voltage output, 4Ω~16 Ω constant resistance output.

● Support IR remote control.

● With priority function, priority is EMC/MIC1>AUX1/AUX2/MIC2.

● With master volume control, and individual volume control of MIC & LINE, as well as treble and bass volume control.

Front Panel

1. Display Screen

2. USB Interface

Insert a USB to provide programs to built-in MP3.

3. Play/Pause

In USB and Bluetooth mode, press this button to pause / play.

In FM mode, press this button to search the radio automatically.

4. Last Song/ (Last Radio in FM)

In USB/Bluetooth mode, press this button to switch to the "Last Song".

In FM mode, press this button to switch to the "Last Radio".

In FM/Bluetooth/USB mode, long press this button to turn down the volume.

5. Next Song/ (Next Radio in FM)

In USB/Bluetooth mode, press this button to switch to the "Next Song".

In FM mode, press this button to switch to the "Next Radio".

In FM/Bluetooth/USB mode, long press this button to turn up the volume.

6. Mode Button

It can switch to Bluetooth mode (BLUE), USB mode (USB), line input mode (AUX) and FM mode (FM).

7. MIC1 IN

This button has priority function. (Level with EMC IN on the rear panel)

8. MIC1 VOL.

Adjust the volume of MIC1, turn clockwise to turn up the volume, and turn counterclockwise to turn down the volume.

9. MIC2/AUX2 VOL.

Adjust the volume of MIC2/AUX2, turn clockwise to turn up the volume, and turn counterclockwise to turn down the volume.

10. AUX1 VOL.

Adjust the volume of AUX1, turn clockwise to turn up the volume, and turn counterclockwise to turn down the volume.

11. BASS VOL.

Take the central position as the benchmark, turn counterclockwise to turn down the bass, and turn clockwise to turn up the bass.

12. TREBLE VOL.

Take the central position as the benchmark, turn counterclockwise to turn down the treble, and turn clockwise to turn up the treble.

13. MASTER VOL.

Adjust the level of all signals (except for EMC IN on the rear panel), turn clockwise to turn up the volume, and turn counterclockwise to turn down the volume.
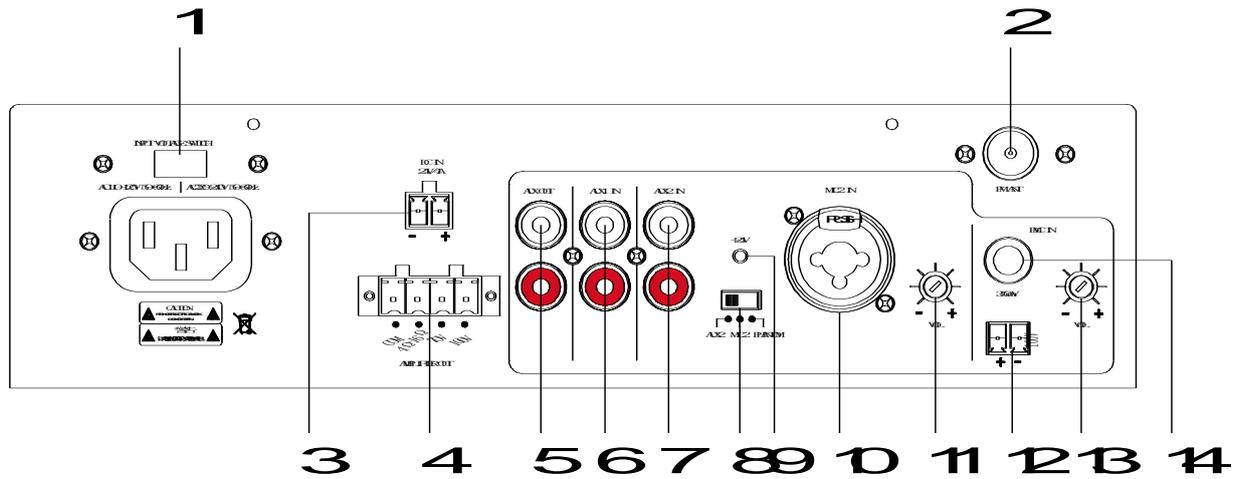
14. POWER

Press "ON" to turn on the power, while press "OFF" to turn off the power.

15. LEVEL LED

Display the audio output level.

Rear Panel

1. POWER IN (Can switch to 110-220V)

Connect working power. Insert the plug into the machine and then connect the power grid.

2. Radio Antenna Interface

Connect the radio antenna.

3. DC24V Power Input

DC24V backup power input interface.

4. Audio Power Output Terminal

Note: No terminal can be connected to the "Ground wire", no matter directly or through other devices.

5. AUX OUT

6. AUX1 IN

7. AUX2 IN

8. Audio Source Selection Switch (AUX2-MIC2. Note: Please turn down the volume or turn off the device before using the switch.)

AUX2 and MIC2/24V. Phantom voltage switch by turning left and right.

9. Phantom Voltage LED

10. MIC2 Balanced IN

11. AUX2/MIC2 VOL.

12. 100V EMC IN (Note: When using external 100V emergency signal input, the machine ground wires of the two devices can not be connected.)

13. EMC IN VOL.

14. General EMC IN

Operating Instructions

1. MIC Mode

In any mode, when there is a broadcasting through the microphone, the system will detect the voice from the microphone and mute other sources. And it will return to the original play status when the microphone has no signal.

2. Bluetooth Mode

Press the MODE button to display "BLUE" on the digital screen. The "BLUE" will keep flashing until the pairing is successful. Please turn on the Bluetooth of mobile phone or other audio source devices to search the Bluetooth device "MP250UB" for pairing, with wireless transmission distance≈10m.

3. USB Mode

When a USB is inserted, it will be adjust to USB mode automatically (Plug and play).
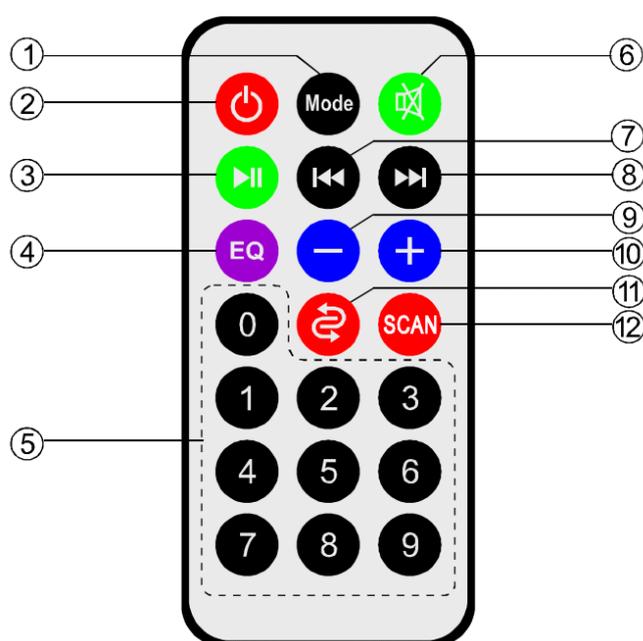
4. LINE Mode

Press the MODE button to display "AUX" on the digital screen and enter the AUX mode.

5. FM Mode

Please refer to the part 3, 4 and 5 of "Front Panel" for operation details.

Remote Controller

The remote controller is as shown below..

Function Keys:

① Mode button for working mode switching.

② Power switch

③ Play/Pause / (Auto radio searching in FM)

④ EQ button

⑤ 0-9 numeric keys, can be combined as a digital channel in FM for selection.

⑥ Mute button

⑦ Last song / (Last radio in FM)

⑧ Next song / (Next radio in FM)

⑨ Vol-

⑩ Vol+

⑪ Cycle

⑫ Record button

Specification

Model	ALF-250W-UB
Power Supply	AC110-120V / AC220~240V 50/60Hz(Select via the switch)
MIC1 IN Sensitivity	10mV±10%
MIC2 IN Sensitivity	15mV±10%
AUX1 IN Sensitivity	350mV±10%
AUX2 IN Sensitivity	350mV±10%
EMC IN Sensitivity	350mV±10%
MIC Frequency Response	200Hz ~ 10kHz （±3dB)
AUX Frequency Response	100Hz ~ 16kHz （±3dB)
Noise	<10mV
Distortion	<1% 1KHz
Treble Adjustment	10dB （±2)
Bass Adjustment	10dB （±2)
Rated Output Power	250W
Interface Output Voltage	70V,100V(Constant voltage output).
Machine Dimension (D×W×H)	363×292×106mm
Package Dimension	363×292×106mm (1PC)
Maximum Package Dimension	610×390×240mm (4PCS)
Net Weight	3KG
Gross Weight	3.7Kg (1PC)

*Note: When the power supply is switched to 110V, the machine can not be powered by 220V, otherwise it will be burned.

Packing List

Component	Quantity
Mini Mixer Amplifier	1
User Manual	1
Warranty Card	1
Certificate	1
Remote Controller	1
Bluetooth Receiving Antenna	1

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

FCC RF Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement.