

2U - 6 - zone Independent Volume Adjustable Power Amplifier

Thank you for purchasing our product!

Please carefully read this instruction manual before using the device, and keep it properly for future reference.

Safety Instructions

1.Please read this manual thoroughly before use.

2.Pay attention to the safety warnings indicated in this manual.

3.It is recommended to retain this manual for future reference.

4.The safety symbols and warnings in this manual are intended to prevent personal injury and property damage caused by improper operation. Before using this product, carefully read this manual to fully understand the various safety symbols and warnings to be aware of potential hazards.

5.The machine must be used within the specified voltage range; using a higher voltage may result in electric shock or fire.

6.Do not use a damaged, twisted, or broken power cord, and do not replace the power cord arbitrarily. Keep the machine away from heaters to prevent fire or property damage.

7.Heavy objects must not be placed on this machine to prevent equipment damage that could lead to electric shock or fire.

8.The machine should be installed on a surface that can support its weight or on a stable tabletop. It must not be installed or placed on unstable surfaces (such as wobbly tables or uneven surfaces) to prevent injury or property damage from the machine falling.

9.Wet hands must not be used to plug in or unplug the power cord to avoid electric shock.

10.When unplugging the power cord, ensure it is done by holding the plug itself, not by pulling the power cord directly.

11.Before moving the machine, always unplug the power cord. Moving the machine with the power cord plugged in may cause fire or electric shock.

12.Do not cover the ventilation openings on the machine to prevent the internal temperature from becoming too high and causing a fire.

13.13The machine should not be installed in humid or dusty areas, places with direct sunlight, near heaters, or where there is steam, such as bathrooms, to prevent fire or electric shock.

When Installing This Machine!

ARNING! Improper use may cause personal injury, property damage, or loss of life.

Important Safety Precautions for Using This Machine

1.If any of the following abnormalities are found during use, immediately turn off the power, quickly unplug the power cord, and contact your dealer. Do not continue to use the machine until the issue is resolved, as it may cause fire or electric shock.

2.If smoke or a strange smell is emitted from the machine.

3.If water or metal objects enter the machine.

4.If the machine is dropped, or the casing is damaged.

5.If the power cord is damaged (exposed wires, broken wires, etc.).

6.As there are high-voltage components inside the machine, do not open the casing to avoid fire or electric shock. If there are any problems, contact your dealer.

7.Do not place cups, bowls, vases, or any other containers filled with liquids on the machine. If liquid spills into the machine, it may cause fire or electric shock.

8.Do not expose the machine to rain or any damp or wet locations, as this may cause electric shock or fire.

9.Do not insert metal objects or flammable materials through the ventilation openings on the machine, nor insert coins, as this may cause fire or electric shock.

10.Do not place heavy objects on the machine to avoid injury or property damage from the machine falling.

11.Do not continue to use the machine if it produces distorted sound, as this indicates a malfunction and may cause the internal components to overheat and lead to a fire.

12.For dust accumulation that requires cleaning, contact your dealer for regular maintenance to prevent damage or fire.

13.The socket connection must be secure to avoid poor contact that may cause fire or injury. If the machine is not used for more than 10 days, unplug it to prevent electric shock or fire.

14.Set the volume to the lowest level before turning on the machine, as high volume at startup may cause hearing damage.

15.If the machine panel is upgraded, no additional notice will be provided. Please refer to the actual product for details.

Table of Contents

SAFETY INFORMATION 0

PRECAUTIONS FOR USING THIS DEVICE 0

1PRODUCT OVERVIEW 1

1.1PRODUCT FEATURES 1

1.2PRODUCT SPECIFICATIONS 2

2PRODUCT APPEARANCE AND STRUCTURE DESCRIPTION 3

2.1 FRONT PANEL INTRODUCTION 3

2.2 REAR PANEL INTRODUCTION 4

3 MP3 MODULE PANEL FUNCTION DESCRIPTION 5

1. Product Overview

Overview:

This series of public address MP3 power amplifiers features 6-zone independent volume control, with rated power ranging from 120W to 650W. It adopts Class AB amplification circuitry, offering strong load capacity and stable performance. Equipped with 6-zone control, each zone's volume can be adjusted independently. The amplifier supports RS-485 remote microphone control, fire alarm broadcast linkage, and human body sensor-triggered voice prompts.

1.1 Product Features

1.The device adopts an advanced and efficient power amplification circuit that ensures full power output, with a simple and elegant design.

2.A built-in MP3 decoding and playback module is included, supporting USB drive playback and equipped with an infrared remote control for user convenience.

3.Four custom i z able buttons are available, with the defined songs stored internally in the MP3 module, allowing one-touch play and stop functions.

4.An integrated FM radio module enables both manual and automatic station searching, with automatic saving of valid stations.

5.Bluetooth connectivity is supported, allowing users to play audio programs directly through a mobile phone music player.

6.Remote microphone control is supported, allowing single-zone or all-zone activation and deactivation. Broadcasting can be carried out via the microphone. A daisy-chain connection method is used, supporting up to 16 microphones, with one assigned as the highest priority.

7.A fire alarm trigger input is provided for linkage with emergency broadcast systems. Built-in alarm audio is included and can be customized.

8.A chime trigger input is available, which can be connected to a motion sensor to trigger voice prompts. The prompt audio can also be customized.

9.Three microphone inputs, two AUX line inputs, one EMG emergency input, and one auxiliary output are provided.

10.Each input signal channel, except for the EMG input, is equipped with independent volume control, along with treble, bass, and master volume adjustment.

11.A three-level priority system is included, with EMG as the highest priority, MIC1 as the second level, and AUX1, AUX2, MIC2, and MIC3 as the third level.

12.Six zone management output channels are available, with independent volume control for each zone.

13.The power output is configured for 100V constant voltage, with effective output options of 120W, 240W, 360W, 500W, and 650W.

14.Built-in fault protection indicators alert users to issues such as excessive input signal, overload, overheating, or short circuits, ensuring high reliability.

15.Standard 2U rack-mounted chassis with aluminum alloy front panel.

1.2 Product Specifications:

1. Rated Output Power: 120W / 240W / 360W / 500W / 650W

2. Speaker Output: 100V

3. Input Sensitivity:MIC1/2/:15mv/600Ω；AUX1/2: 350mv/10KEMG:775mv/10KΩ

4. Auxiliary Output: 600Ω / 1V (0dBV)

5. Frequency Response: 80Hz–16KHz (+1 / -3dB)

6. Total Harmonic Distortion (THD): ≤1% Specifications are subject to change without prior notice.

7. Total Harmonic Distortion: Less than 0.1% at 1kHz, 1/3 rated power

8. Control Method: Gain control, power control

9. Cooling: Fan activates when internal power module reaches 65°C for forced cooling

10. Protection: Overheat protection, short circuit protection, over current protection

11.Power Supply Input: AC 220V / 50Hz

12.Power Consumption: 192W / 290W / 580W / 800W / 1020W

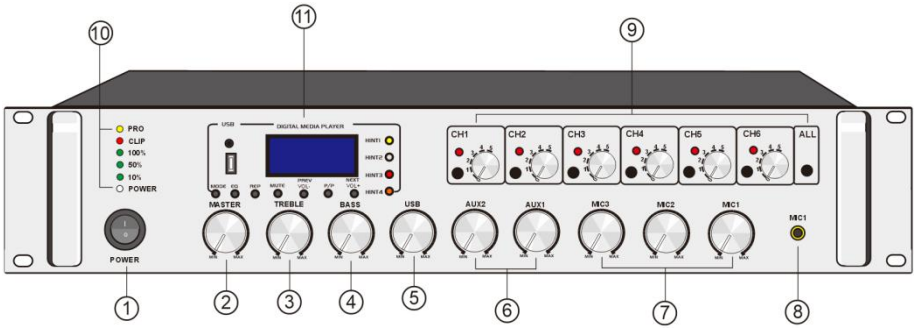
13.Fuse Rating: 5A / 10A / 12A / 15A / 15A

14.Dimensions: 485*360*88/485*420*88

15.Weight: 9.4 kg / 12.15 kg / 15.58 kg / 17.4 kg / 18.75 kg

2. Product Appearance and Structure Description

2.1 Front Panel Introduction



1. Power Switch: Press upward to turn on the power; press downward to turn off the power.
2. MASTER – Master Volume: Adjusts the overall input signal level.
3. TREBLE – Treble Control: Adjusts the high-frequency response. Turn clockwise to increase treble, counterclockwise to decrease.
4. BASS – Bass Control: Adjusts the low-frequency response. Turn clockwise to increase bass, counterclockwise to decrease.
5. USB Volume: Adjusts the volume of MP3 playback from the USB input.
6. AUX1 / AUX2 – Auxiliary Volume Control
7. MIC1 / MIC2 / MIC3 – Microphone Volume Control
8. MIC1 – Unbalanced Signal Input Port
9. 6-zone segmented volume control with 0–5 level adjustment: Manual switches are provided for turning each zone on or off individually, and an "ALL" button allows simultaneous activation or deactivation of all zones.
10. White Power Indicator: Illuminates when the power is on; turns off when the power is off Green Signal Indicator: Lights up when a signal is present; turns off when there is no signal

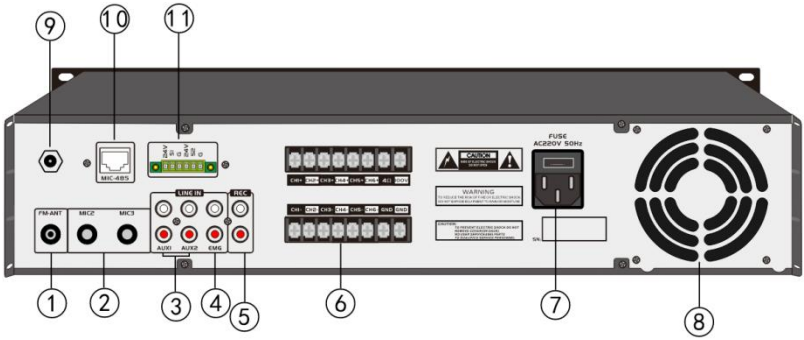
    Red Peak Indicator: Lights up when the input signal reaches full load or overload

    Yellow Protection Indicator: Lights up when the system enters protection mode; remains off during

normal operation. If the system enters protection due to overheating, overload, or DC fault, the indicator lights up and the output relay is disconnected

11. MP3 Module

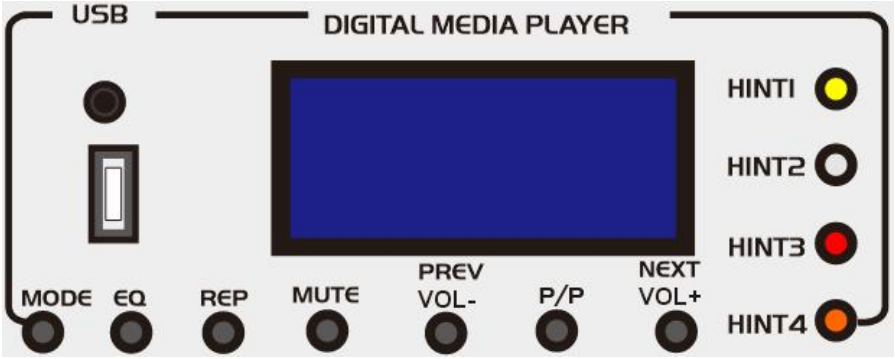
2.2 Rear Panel Description



1. FM Antenna Port
2. MIC1 / MIC2 Microphone Input Jacks, Unbalanced connection ports
3. AUX1 / AUX2 Line Input Jacks, Unbalanced connection ports
4. The EMC emergency input port is used for emergency alarm audio signals. Once a signal is detected at this port, the emergency function is activated.
5. The line output port is used to connect to the next device in the audio chain.
6. CH1–CH6 Ports: Six zone output terminals used to connect speakers. The 100V/4–16Ω terminals support either 100V constant voltage speakers or 4–16Ω impedance speakers.
7. AC 220V Power Input Port
8. Cooling Fan
9. Antenna Port
10. 485 Port: Used to connect a specially designed 485 interface microphone.
11. S1 Alarm Trigger Port, S2 Motion Sensor Trigger Port

Product images are for reference only. Please refer to the actual product for accuracy.

3. MP3 Module Panel Function Description



1. MODE: Switch between MP3 and Bluetooth modes (long press to return to the main interface)
2. EQ: Switch sound effects
3. REP: In MP3 mode, toggle between repeat all and repeat one
4. MUTE: Mute function
5. PREV/VOL-: Short press for previous track / long press to decrease volume
6. P/P: Short press to play/pause / long press to switch between Chinese and English
7. NEXT/VOL+: Short press for next track / long press to increase volume
8. HINT1: National anthem prompt
9. HINT2: Fire alarm prompt
10. HINT3: Class start prompt
11. HINT4: Class end prompt

! WARNING !

To avoid electric shock, do not open the chassis cover. In case of equipment failure, contact the agent or manufacturer for repair services. Professional personnel with appropriate certificates from authorized departments should be entrusted for repairs. Non-professional personnel must not disassemble the machine to prevent electric shock accidents that may endanger the operator's life safety.

PUBLIC ADDRESS SYSTEM Ver1. 2

Due to continuous product improvements, design and specifications are subject to change without notice.