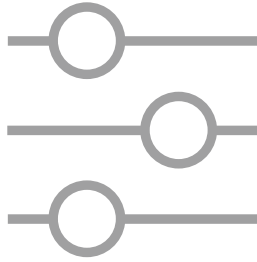


Operation Manual

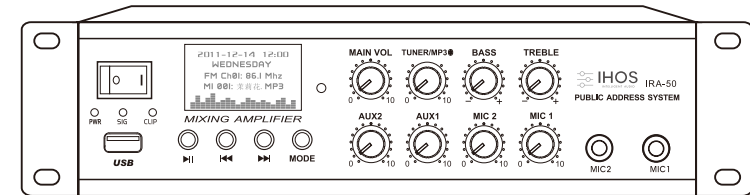


IHOS

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MIXING POWER AMPLIFIER


IPA-50



Notice: IHOS Technology makes every effort to ensure the accuracy of information on this manual. The documents, graphics, and other information included in this manual may include technical inaccuracies, typographical, or other errors.


Specifications are subject to change without notice.






Attention


Do not open the lid!
Risk of electric shock!




Note: In order to reduce the risk of fire and click, please have a professional with professional certification to repair.




The lightning symbol in the triangle is used to warn the user that the equipment carries dangerous voltage, which may pose a threat to the safety of life.




The exclamation mark in the triangle is used to inform users of important operation and daily maintenance rules



It is only suitable for use in areas with an altitude of 2000m and below.



Only suitable for using the equipment in non-tropical climate conditions.



WARNING

1. In thunderstorm weather or if the device is not operated for a long time, please disconnect the power supply and all connecting wires of the device;
2. Do not suffer from water droplets or splashes in the storage, transportation and operation environment, and do not place objects filled with liquids such as vases on the equipment;
3. Do not open the cover of the machine at will to prevent electric shock, and repair by professionals with professional certificates when necessary;
4. This equipment uses a power plug as a disconnect device, and the disconnect device should be kept easy to operate; the device shall be connected to a power supply output socket with a protected ground connection for use.

Maintenance Manual

Matters needing attention:

1. Please connect the audio cable correctly.
2. Connect the constant voltage speaker to 0V and 100V, and the constant impedance speaker to GND and 8 ohms.
3. When using the Bluetooth function, please keep the device within the acceptable range (within 5 meters directly in front of the machine, no obstruction in the middle).
4. Please note that the power supply cannot be lower than 180V and cannot be higher than 250V, so as not to affect the normal operation of the machine.

Daily maintenance:

1. Keep away from heat sources, do not block the vents, and keep the vents unblocked;
2. If the power cord is damaged, stop using it immediately;
3. The equipment should not be placed in the following places: poorly ventilated places; dusty, humid places, and direct sunlight places; places with high ambient temperature or near heat sources; places that are prone to vibration;
4. The chassis is safely grounded.

The following conditions are not covered by the warranty:

1. The anti-opening lid sign is torn;
2. The product has been burned due to incorrect operation or negligent use, such as overload or feedback;
3. The product has been broken due to careless carrying;
4. Faults caused by poor environmental factors, such as excessive input voltage, moisture, etc.;
5. The product body number has been converted, altered or removed;
6. The product has been repaired or modified by non-company personnel;

Technical Parameters :

Model	IPA-50
Rated power	50W
Mic input	-60dB, 600Ω Unbalanced, 6.3mm TS
AUX input	-20dB, 10kΩ Unbalanced, Stereo RCA jack
Line output	0dB, 600Ω Unbalanced, Stereo RCA jack
Speaker output	High impedance: 100V, 70V; Low impedance: 8Ω.
Circuit protection	AC FUSE, Overheating, Overvoltage, Overcurrent, Short circuit, DC protection and Delay protection.
Effector	5 kind of EQ can be select (For play MP3 and FM)
Output control	Treble: ±12dB at 10kHz; Bass: ±12dB at 100Hz
Frequency response	20~20kHz (±3dB)
SNR	Mic input > 66dB; AUX input > 75dB
T. H. D	< 0.5% at 1kHz, when 1/3 rate power output
Power	220v, 50Hz
Power consumption	70W
Net weight	3.2kg
Operate temp/ humidity	-10℃ ~ +40℃, < 95%
Dimensions	250 (W) × 72 (H) × 210 (D) mm
Gross weight	4kg
Packing dimensions	324 (W) × 110 (H) × 280 (D) mm

Common troubleshooting methods:

1. The power amplifier is not powered (the Power light is off)

- a. The power plug is not properly inserted and the contact is poor
Check whether the power plug is inserted tightly, and replace with a new power socket.
- b. Communication insurance burned
Replace the fuse of the same specification and model.

2. Power amplifier protection (power on but not working normally, Pro light is always on)

- a. Load short circuit
Use a multimeter to test the load and check whether the line connector is short-circuited.
- b. Power amplifier overload
Whether the total power of the speakers and the total line loss exceed the rated power of the power amplifier.
- c. Power amplifier circuit failure
Disconnect the power amplifier from the load (no audio input/output) and turn on the power, and check whether the power amplifier is normal.

3. The amplifier status is normal, no sound output

- a. Audio source failure
Whether the audio cable is inserted into the port correctly, whether the audio source selection input is correct, and whether the volume is turned on.
- b. Horn failure
Whether the type/parameter of the speaker matches the output interface of the power amplifier.

4. The output of the power amplifier is abnormal (distorted sound, loud and small, etc.)

- a. The output volume is too loud
Adjust the master volume knob to reduce the output volume.
- b. The sensitivity of the input audio source signal does not match
Select the correct sensitivity of the audio source signal to connect to this device.
- c. Machine circuit failure

5. MP3 does not play

- a. Song format is wrong
Check whether the song format is MP3, WMA, WAV.
- b. U disk format is wrong
Please format the U disk with FAT.

6. Can't receive radio

- a. The antenna is not in good contact
Check whether the FM antenna is in good contact.
- b. Use environmental interference
Check the use environment, you can connect the antenna to the CCTV cable to test.

If the above troubleshooting is done, and the equipment still does not work properly, please contact a person with professional maintenance qualifications for repair or return to the factory for repair.

U disk MP3 playback (the default MP3 playback):

1. Plug in the U disk (the device supports MP3, WMA, WAV format).
2. Power on the device (please connect the speaker before powering on).
3. Wait about 3 seconds to automatically play the songs on the U disk, and you can control the playback by pressing **▶||**, **◀◀▶▶** buttons.
4. Press **↻** button to select MP3 playback loop mode, four built-in playback modes: single loop (1), random (R), folder loop (F), all loop (A).

Note: The music mode will be prompted when the audio source is switched to MP3.

Bluetooth playback:

- a. Press MODE to switch the audio source to Bluetooth (prompt for Bluetooth mode), and the machine panel displays Bluetooth.
- b. Turn on the Bluetooth function of the mobile phone and perform Bluetooth matching.
- c. After the match is successful, the songs in the mobile phone can be directly pushed to the machine for playback.

Radio playback:

- a. Press MODE to switch the sound source to radio (prompt radio mode).
- b. Connect the radio antenna.
- c. Press **▶||** button, the radio will start to auto-tune and save automatically.
- d. Press **◀◀▶▶** to switch radio station.
- e. In radio mode, press **◀◀▶▶** to receive radio station manually and play.

Remote Control :

Remote control operation instructions:

MP3 standby button

Can turn on and off the MP3 player and display screen.

MODE audio source switch

Can switch between MP3, radio and Bluetooth.

MENU audio source switch

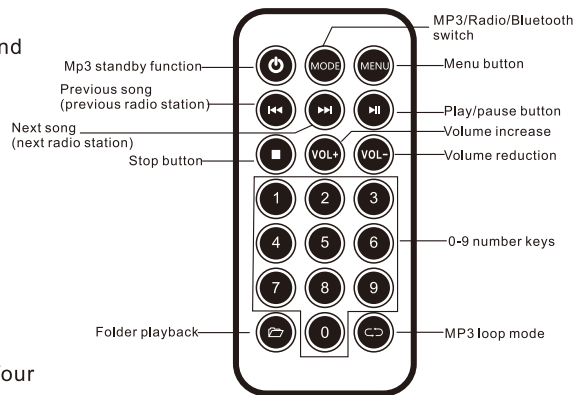
Can enter the menu to operate

MP3 loop mode

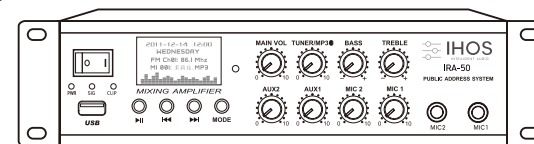
Press this key repeatedly to display four cycle modes on the display screen.

Remote radio description

First switch the audio source to radio mode, press the play button to receive the radio station and save it automatically.

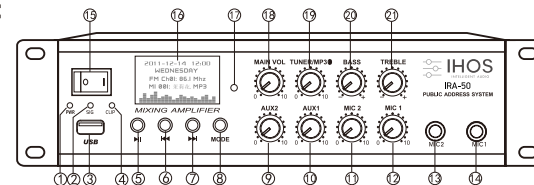


Function Description:



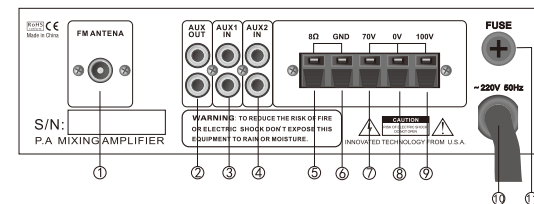
- Built-in MP3 player, MP3 and WMA dual decoding, USB interface with super reading ability.
- Support MP3, WMA, WAV song format playback.
- The Bluetooth function, can connect the mobile phone Bluetooth, play the music in the mobile phone.
- Radio function, built-in FM tuner.
- Two Mic inputs, two Line inputs, and one AUX output.
- 100V/70V constant voltage output and 4-16Ω constant impedance output.
- Adopt a new type of 128*64 graphic dot matrix display screen. The display content is rich, clear and clear at a glance.
- Mic 1 has priority (auto-mute function).
- Power, signal, and peak clipping instructions.
- Separate volume control of microphone and line, main volume control.
- Treble and bass tone control.
- MP3 can choose to play loop mode, built-in four playback modes: single loop (1), random (R), folder loop (F), all loop (A).
- choices of sound effects to adapt to the hearing habits of people at different levels.
- Can display Chinese and English song names, length, and playing time.
- Dynamic spectrum display, more dynamic design.
- Infrared remote control function, so all operations can be remote controlled.
- Standby function, energy saving and environmental protection, and prolong service life.
- Power on delay protection, electronic protection against output short circuit.
- Output power: 50W.

The Front Panel:



1. Power indicator light
2. Signal indicator light
3. USB interface
4. Peak clipping indicator light
5. Play/Pause
6. Previous song
7. Next song
8. Audio source switch
9. AUX2 volume adjustment
10. AUX1 volume adjustment
11. MIC2 volume adjustment
12. MIC1 volume adjustment
13. MIC2 input interface
14. MIC1 input interface
15. Power switch
16. LCD display screen
17. Remote control receiving window
18. Main volume adjustment
19. MP3 volume adjustment
20. Bass adjustment
21. Treble adjustment

The Rear Panel:



1. FM antenna interface
2. AUX output
3. AUX1 input
4. AUX2 input
5. 8 ohm constant impedance output
6. 8 ohm constant impedance ground
7. 70V constant voltage output
8. 0V constant voltage ground
9. 100V constant voltage output
10. AC 220V input
11. Fuse