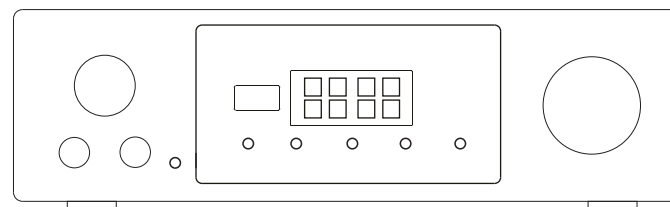




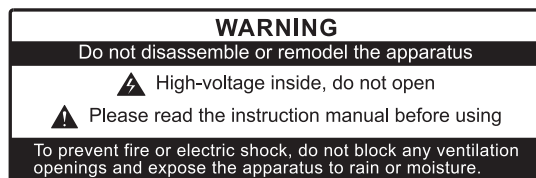
High Power Stereo Amplifier



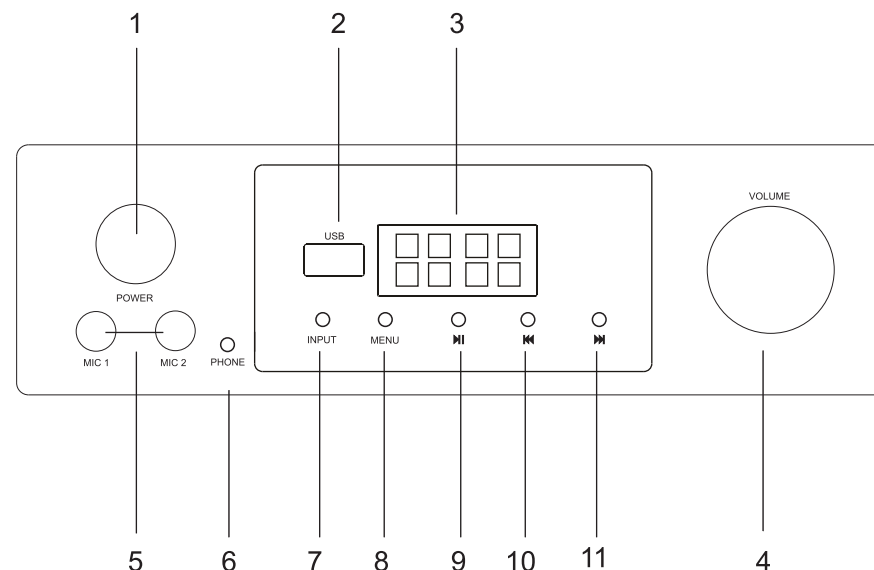
MODEL:IV-AMP280

Important Safeguards

1. All the safety and operating instructions should be read before the appliance is operated, and should be retained for future reference.
2. Heed Warning - All warnings on the appliance and in the operating instructions should be adhered to.
3. Power Source - The appliance should be connected to a power supply only of the type specified in the operating instructions or as marked on the appliance.
4. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles and the point where they exit from the appliance.
5. Water and Moisture - The appliance should not be used near water (for example: near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.)
6. Ventilation - The appliance should be situated so that location or position does not interfere with its proper ventilation. Do not use the appliance on a bed, sofa, rug or similar surface that may block the ventilation openings.

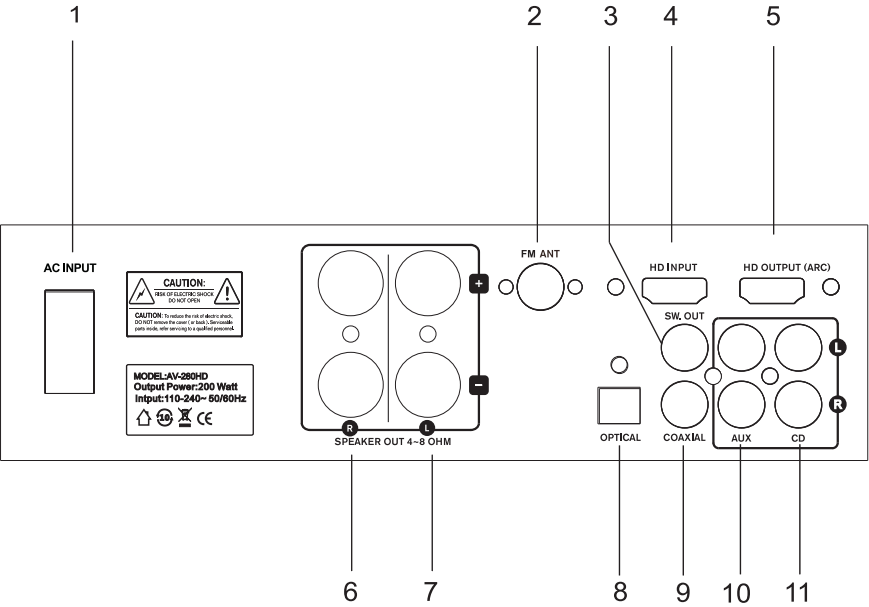


Front Panel



1. Power Button
2. USB/DAC Socket
3. LED Display
4. Master Volume Control
5. Mic1/Mic2 Jacks (Can connected with both wired and wireless mic)
6. 3.5mm Earphone Socket
7. Signal Input Select Key
(Can be switched on Bluetooth/USB(DAC)/HDMI /ARC /AUX/FM/CD/Optical/Coaxial signal)
8. Menu (Treble/Bass/Master Volume control/MIC echo/volume control)
9. Play /Pause & FM scan (Only working under USB/BT/FM mode)
10. Prev /Fast-reverse (Only working under USB/BT/FM mode)
11. Next /Fast-forward (Only working under USB/BT/FM mode)

Rear Panel

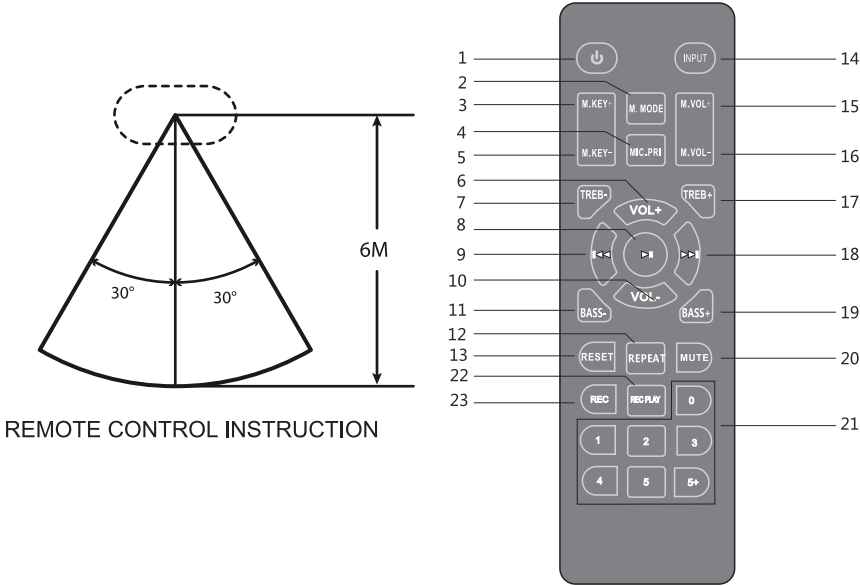


1. Power Input
2. FM Antenna
3. Active Subwoofer Output
4. **HDMI Input**
5. **HDMI Output**
6. Right Speaker Output
7. Left Speaker Output
8. Optical Digital Signal Input
9. Coaxial Digital Signal Input
10. AUX RCA input
11. CD RCA input

Technical Parameters

- Input Power: AC110-220V 50/60Hz
- Rated Power: 100Wx2
- Frequency Response: 20Hz-20KHz
- Output Impedance: 4-16 ohms
- THD: <0.1% (1W)
- S/N Ratio: >75dB
- Dimensions: 220/W x 170/D x 60/H mm

Remote Control Range Diagram

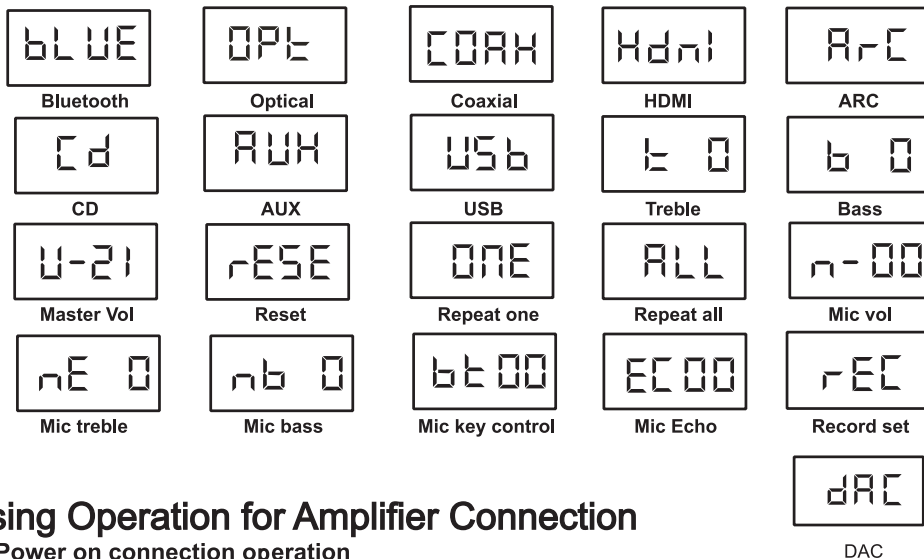


- 1.Standby
(After pressing, the screen displays the letter "OFF", and after a pause of a few seconds, the screen turns off)
- 2.Mic setting
- 3.Mic Key control+
- 4.Mic priority
- 5.Mic Key control-
- 6.Master Vol up
- 7.Treble Vol down
- 8.Play/Pause
- 9.Prev song
- 10.Master Vol down
- 11.Bass Vol down
- 12.Repeat setting(single or all)
- 13.Reset
- 14.Input selection
- 15.Mic Vol up
- 16.Mic Vol down
- 17.Treble Vol up
- 18.Next song
- 19.Bass Vol up
20. Mute
- 21.Musical selection number
(long press 0 is for EQ)
22. Play recording
23. Start recording

Display Diagram

Since the display screen is made of DIGITAL DISPLAY, the display diagrams are somewhat different from the common letters. Thus, please follow below instructions to operate.

Audio Signal Input



Using Operation for Amplifier Connection

Power on connection operation

1. Connect the power cable and amplifier's back panel power interface correctly, and ensure insert power-on socket properly.
2. Turn on the power switch, and the front display will appear “-HI FI-” and skip to BLUE or the input of memory
- 3 The amplifier is powered on after above operation is completed*

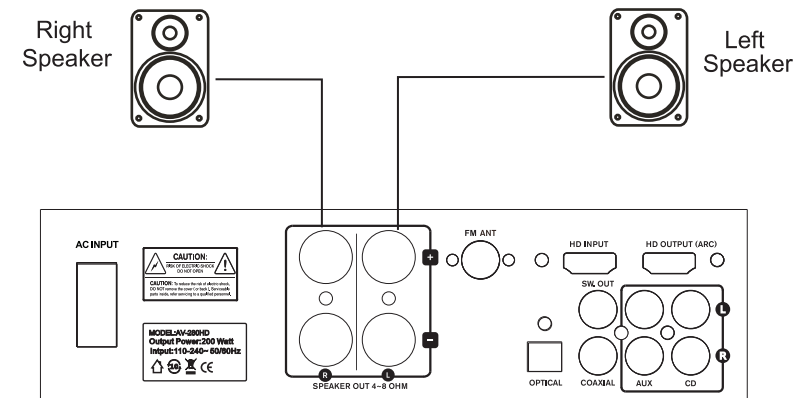
Bluetooth Function

1. Select the input as BLUE by remote or control panel. When BLUE flashes, connect your phone or Bluetooth device, need pairing connection.
 - a) Please turn on the phone bluetooth or other devices and search for devices.
 - b) Device name “AV-280HD” click to pair with it, no password is required for connection
 - c) Connected successfully, there will be an audible prompt, and the BLUE icon will stop flashing, then connected.
 - d) After the connection, play a song on phone, the wireless distance is about 5-10 meters
2. Remote control in Bluetooth mode, please refer to the remote control operation instructions.
3. The phone connected Bluetooth, speaker switch to Bluetooth mode next time, the device will be automatically match.
4. Multi devices turn on the Bluetooth at the same time, the machine will automatically match the played device last time. Please turn off the connected device Bluetooth, or the new device can't connect speaker Bluetooth.
5. Listening music under Bluetooth mode, and it is slightly noise, it's normal.

FM Connection

1. Insert the radio antenna into the FM port on the rear panel. In order to ensure the radio effect, please extend the FM antenna as far as possible out of the window.
2. Press the “Input” button on the front panel or the remote control, the number “87.5” will show on the LED display, indicating that the mode has been switched to FM mode.
3. Press and hold the Scan button on the remote control for automatic channel search. At this time, you need to wait more than 5 minutes. The number of stations searched and the clarity of the signal will be different in different regions. The machine will automatically save the searched stations, in order: P01 / P02 / P03 / P04 ...
4. After searching, it will jump to the first saved radio station. Pls press the “◀” and “▶” on the front panel or remote control when you need to manually select the saved radio station.

Rear of Amplifier and Speaker Wiring



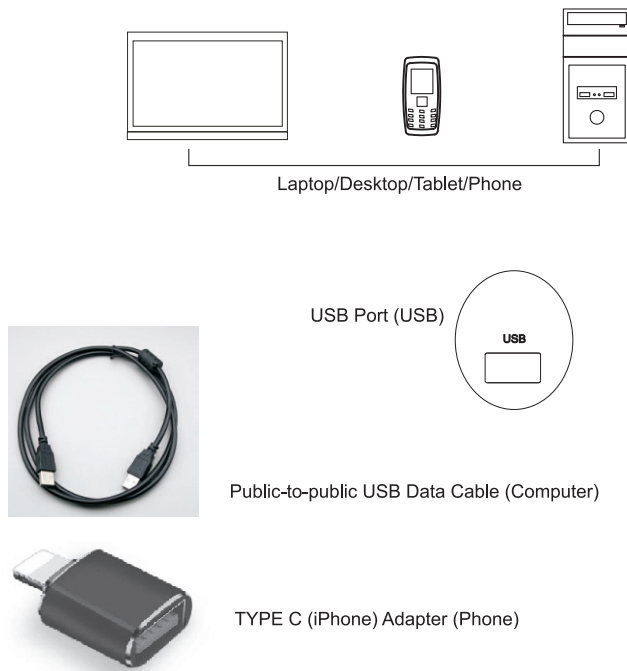
As shown in the diagram above, please follow below steps when connecting speaker cables:

1. Speaker cables have different colors. The rear back of amplifier also has red and black colors on the R (Right Speaker) and L (Left Speaker) ports. Please follow the principle of color at both ends.
2. When connecting the speaker cables, please note that the copper wires that are pulled out at the two ends cannot be crossed together to avoid short-circuit burning.
3. The speaker cables to be inserted into the connecting post of amplifier and speaker and tighten clockwise, and gently pull it by hand to ensure that the sound is not vibrating during operation.
4. Turn on the power after cables of the speaker and amplifier to be fully connected.

Use USB device

1. Insert USB into front port or insert directly in other modes to automatically read the music.
2. Press INPUT button on panel or USB button on remote control, the 00:00 countdown is displayed, the files is being read.
3. The machine automatically read the music files, please make sure the audio files are stored in USB. Do not to create the root directory, and do not to save other format such as video files. it still cannot be read normally, please try to format the USB and copy the music files again. Note that the maximum USB capacity should not exceed 32G.
4. Last/next songs, play/pause, volume level, etc. can be pressed through the control buttons on the panel or the remote control.
5. This machine with power-off memory function, support audio format MP3/WMA/FLAC/APE

DAC Audio Connection



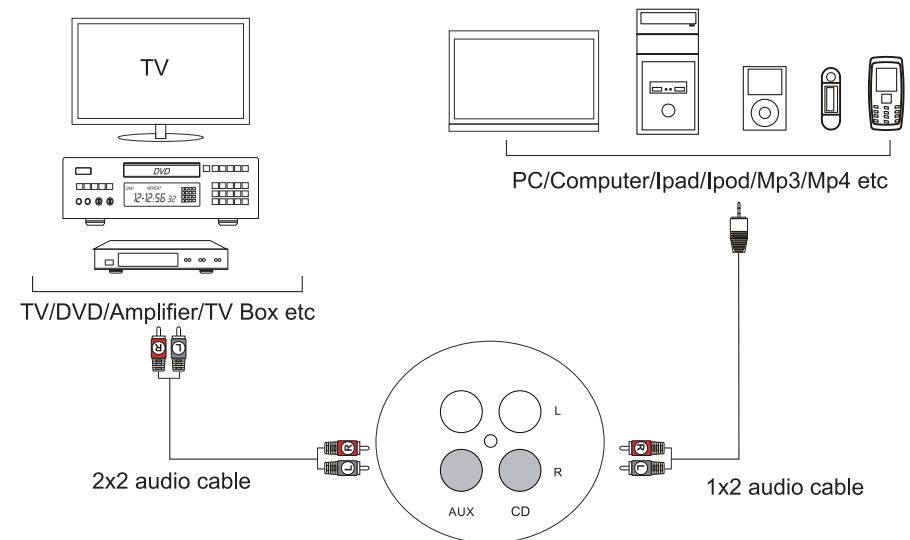
1. The device has a built-in DAC (Digital to Analog Converter) audio function and can connect to devices such as computers and phones (OTG data transfer required).
2. For computer connections, use a dedicated public-to-public USB data cable and connect it to the USB port on the back of the device (as shown in the diagram). Ensure both ends are securely connected. For phone connections, use the appropriate adapter for the phone model. This connection method provides superior sound quality compared to other audio inputs.
3. When a signal is playing, the DAC mode will automatically detect and recognize it, so there is no need to manually set the signal source with the remote control.
4. After confirming that all connection cables are properly set up, increase the device volume and start playing audio from the playback device.

Earphone output sockets



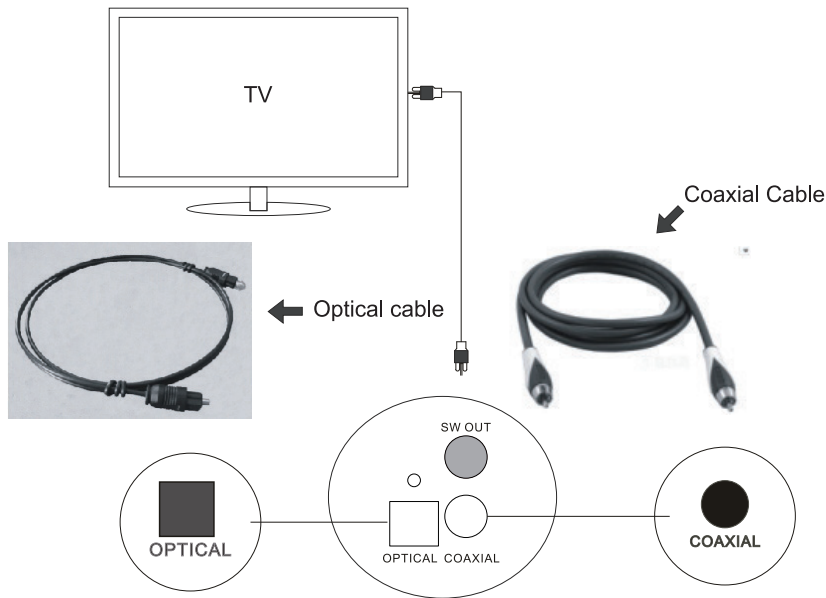
1. Set volume down before using earphone
2. Connect with use 3.5mm earphone cable, make sure the plug fix tightly to avoid noise
3. When using this socket, the external speaker will stop giving sound until plug out the earphone

AUX Connection



- Currently the playback devices which support AUX signal is including: TV, Projector, TV box, DVD, amplifier, phone, MP3 etc.
 - There are two types of AUX audio output interface:
 - a. 2x2 audio connect cable, L/R channel red/white stereo interface
 - b. 1x2 audio connect cable, 3.5mm headphone common stereo interface
1. Press "Input" till "AUX" shows on the display. Please note that this unit has two AUX signals for selection, and pay attention to whether it is the first port or the second port.
 2. Connect the amplifier with playback device by RCA cable properly.
 3. Adjust the amplifier volume up to 17, and play audio file.

Digital Audio Connection (Optical or Coaxial)

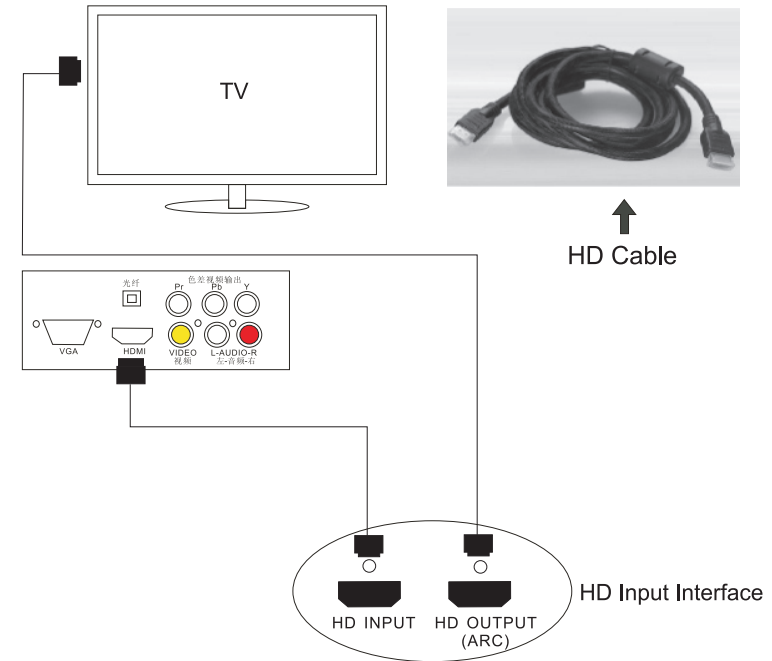


- Optical and Coaxial are digital signal. Be different with AUX analog signal, the sound effect is much clearer through built-in decoder.
- Currently the playback devices which support “SPIDF”, “Optical”, “Coaxial” digital signal is including: TV, Projector, TV box, DVD, etc

1. Press “Input” button from panel or remote control till “OPT” or “COAX” shows on the display.
2. Select the adapted signal cable to connect the amplifier to the playback device.
3. Increasing the system volume of the playback device and amplifier moderately.
4. If all of above connections are correct, but the speaker still no sound and noise, please enter the playback device system settings menu as follow:

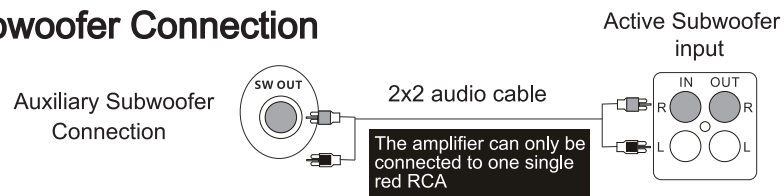
- A. System setting --Sound setting--Select output device (TV/Optical or Coaxial/HDMI ARC/Bluetooth).
- B. Sound setting--Audio output format (Automatic/PCM), Please select PCM.
- C. Different brands of playback devices have textual differences in the settings menu, but they are all similar, depending on the situation.

HD Connection



- HD signal is a kind of digital signal, but different from optical and coaxial digital signal, it is audio and video synchronous transmission. Currently the playback devices which support “HD” high-definition signal is including: TV, Projector, TV box, DVD, etc.
 - Usually these devices are labeled with “HDMI OUT”
 - a. Must be 2 HD cables, one is for input, another is for output
 - b. Need to remove the white transparent rubber cover on the HDMI cable before using.
 - c. Insert the HDMI cable into the playback device (Such as TV box) HDMI output , the other end is inserted into amplifier’s HDMI input , then connect another HDMI cable from the amplifier’s HDMI output to TV HDMI input, to achieve audio and video synchronous transmission.
 - d. This product comes with HDMI ARC function (Audio Return Channel), it offers two-way sound flow between TV and amplifier over a single HDMI connection. But please pay attention to whether the TV has ARC return function and is turned on, and the amplifier’s input signal need to be switched to the ARC state.
1. Pressing “Input” button from panel or remote control till “HDMI” shows on the display.
 2. Select the adapted audio signal cable to connect the amplifier’s HDMI port to the playback device.
 3. Turn on the sound source of the playback device after connecting. Increasing the volume above 17

Subwoofer Connection

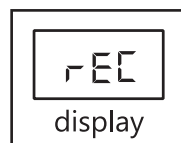


1. This interface is mainly for an upgrade configuration for individual users with higher bass requirements.
2. Connect the playback device to the amplifier by selecting the appropriate audio cable for the SW port
3. After confirming the connection, the external active subwoofer can work regardless of any signal mode.
4. Please note that the external subwoofer must be active and equipped with a **8**-inch subwoofer with RMS above 100W.
5. If the subwoofer has no sound, please increase the button Bass+ sound of the remote control, and increase the volume of the subwoofer.

Record Function Setting



Remote printing



Record function can do external audio record under all the input selection (except USB).

1. The process: plug in USB flash disk, to play the audio from this amplifier (any input except USB) or the external audio source, press "REC" button, LED will show "REC" when time start going, means record is going, press "REC" again for stop.
2. To play the record audio file will be same as playing USB audio file.
3. If want to review the recording effect, can press "RECPLAY". The delete function only can be operated in PC.

Mic Connection

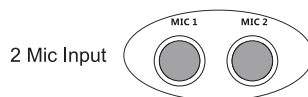
6.5mm Microphone cable



Wireless Microphone Receiver

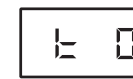
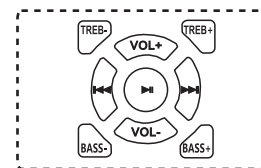


6.5mm Wired Microphone



1. This unit can connect both wired and wireless microphone at the same time. Depending on the user's preference, wired and wireless mic can simply plug the 6.5 audio cable into the amplifier's single mic interface.
2. Please pay attention to the methods when using the microphone as follow:
 - a. Don't put the microphone too close to the speaker to avoid howling. Also remember not to pat the microphone and try to blow it.
 - b. The microphone should not be too close to the mouth.
 - c. If you are using a wired mic, be careful not to trip over the cable. If the wireless microphone is not used for a long time, please remove battery.
3. Regarding the microphone sound effect, it depends on the volume setting of the speaker, as well as the sound quality of the microphone and the live environment.

Tone Treble/Bass and volume setting



display(Treble)



display(Bass)



display(Volume)

1. The Amplifier treble can be operated by the remote control and the pane Pressing TREBLE+ and TREBLE- on remote control to the turn the treble volume up and down. The default is 0, and max gain is 8.
2. The bass can be operated by the remote control and the panel. Pressing BASS+ and BASS- on remote control to the turn the bass volume up and down. The default is 0, and max gain is 8.
3. Press MENU button on the panel, select treble or bass prompts, press VOL+/VOL- to increase or decrease the treble and bass.
4. To increase or decrease the master volume, press the remote control vol+/vol-. The system volume defaults is 10 and the maximum is 32.

Microphone volume setting

1. This Amplifier has rich mic setting menu. It can adjust Mic treble/Mic bass/Mic volume/Echo/Key.

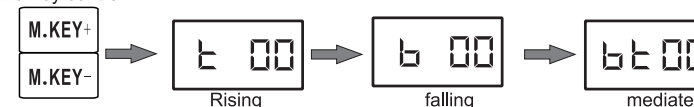
1.M.MODE is a compound key. Please operate it as below instruction:

Mic treble/bass/echo/vol setting



2. Long press M.Key+ or M.Key-, can set the Key in mediate

Mic Key control



3. Microphone priority will return to off status when power off



Volume rest and memory setting



1. The Amplifier volume has been adjusted to the best state. the user is unsatisfied or confuse during adjust, please press the RESET button on the remote control to reset to the factory default settings.
2. The Amplifier has last memory function. It can remember the input mode and all kinds of volume setting which used before the last shutdown.

Volume setting

EQ setting



Remote diagram



Long press “0” on remote, there are 5 EQ mode for chose, show OFF means EQ OFF.

Package Contains

- 1.Amplifier*1 2.Remote Control*1 3.Power Cord*1 4.FM Antenna*1 5.Operation Manual*1

Trouble Shooting

Problems	Cause	Modified methods
Screen displays disorder or malfunction	● Influenced by the outside element.Computer has problem.	● Turn off the set, pull out the wire, reinsert it then start the set again
No sound	● The speaker terminal connects improper ● The sound frequency in terminal wrong connects or improper ● The power plus connects with the socket improper ● The volume is too low ● Press the MUTE key on the panel ● The speaker terminal is short-circuited	● Connect tightly ● Check and connect the sound frequency in terminal properly ● Connect the power correctly ● Turn the volume to the suitable position ● Press down MUTE key ● Cut off the power and connect the speaker well. then start the power again.
Sound distortion	● The amplifier input terminal wrong connects ● The volume is too loud	● Connect properly ● Properly adjust the volume of the corresponding channel
The Sound doesn't continue and replays has "Di-DA" noise	● Using the speaker with the impedance less then 8 Ω ● The Volume is too loud ● The speaker terminal is short-circuited or connected improperly	● Using the speaker with the impedance 8Ω ● Adjust the volume to the suitable position ● Cut off the power and connect the speaker correctly, Then turn on the power