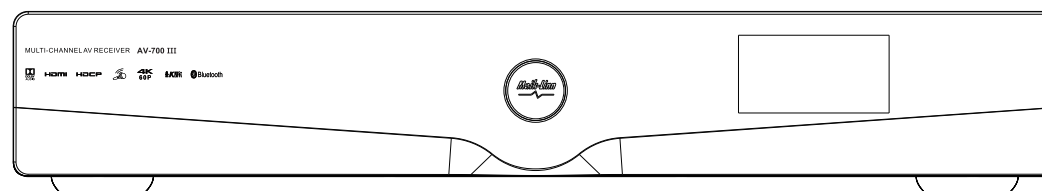




MULTI-CHANNEL AV RECEIVER

Model: AV-700 III

User's Manual



PLEASE READ THIS MANUAL CAREFULLY BEFORE OPERATION
AND KEEP IT FOR FUTURE REFERENCE

Warranty Policy and Customer Service Information

Thank you for purchasing Macken-Lin products. If a product quality issue occurs within 12 months from the date of purchase, you are eligible for the company's warranty service.

NOTES:

1. A valid proof of purchase must be issued by the seller when purchasing.
2. The warranty card and proof of purchase should be properly kept by the user and cannot be lost.
no repeat issuing if lost.

3. if the product appear for the causes of failure, the user can use the warranty card and purchase certificate

Non-warranty Situation: During the user's operation, those that meet one of the following conditions are not covered by the warranty.

1. The warranty period is exceeded.
2. Damage caused by failure to use in accordance with the requirements in the user's instruction manual.
3. Damage caused by human factors.
4. Failures caused by unauthorized disassembling, repair, and modification of products.
5. Damage caused by force majeure factors (such as floods, earthquakes, lightning, etc.).
6. No warranty card, invoice or warranty card does not match the invoice information.
7. The product wears out naturally.
8. Failure and damage caused by other non-product quality problems.

Notes

After unpacking, first check if the product is damaged during transportation, and verify if the accompanying accessories are complete.

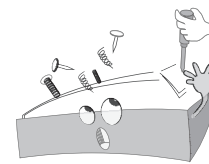
Ensure this device is connected to a grounded power socket.

Ensure the power plug, appliance coupler, and other disconnecting devices are easy to operate.

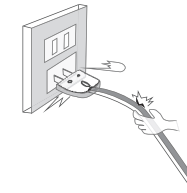
Do not place any containers with liquids on this device, and keep it away from dripping or wet environments.

Usage Precautions

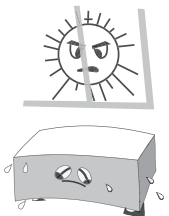
Safety Precautions



Do not open the casing



Attention the power cord



Avoid High Temperatures

1. Opening it risks electric shock. Keep needle, coins, and other metal objects out.
2. When unplugging, grip the plug - never yank the cord. Unplug if not using for long.
3. Don't leave the device in direct sunlight or near heat-emitting equipment.



Warns users that there is dangerous voltage inside the product.



Reminds users that the product comes with important operating instructions.

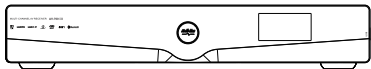
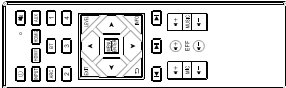
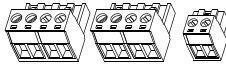
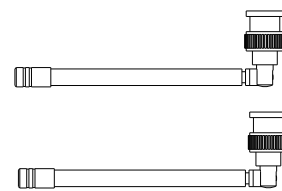
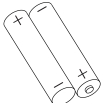
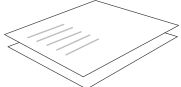
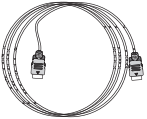


Do not expose the device to rain or moisture, to avoid the risk of fire or electric shock.

Contents

1.List of Items in the Package	1
2.Specifications	1
3.Connection Diagram	2
4.Simple Operation Instructions	3
5.Front/Rear Function Panel Layout	4
6.Remote Control Panel Layout	4
7.Menu Instructions	5
8.Speaker Mode Settings	8
9.Important Precautions	9
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I. List of Items in the Package

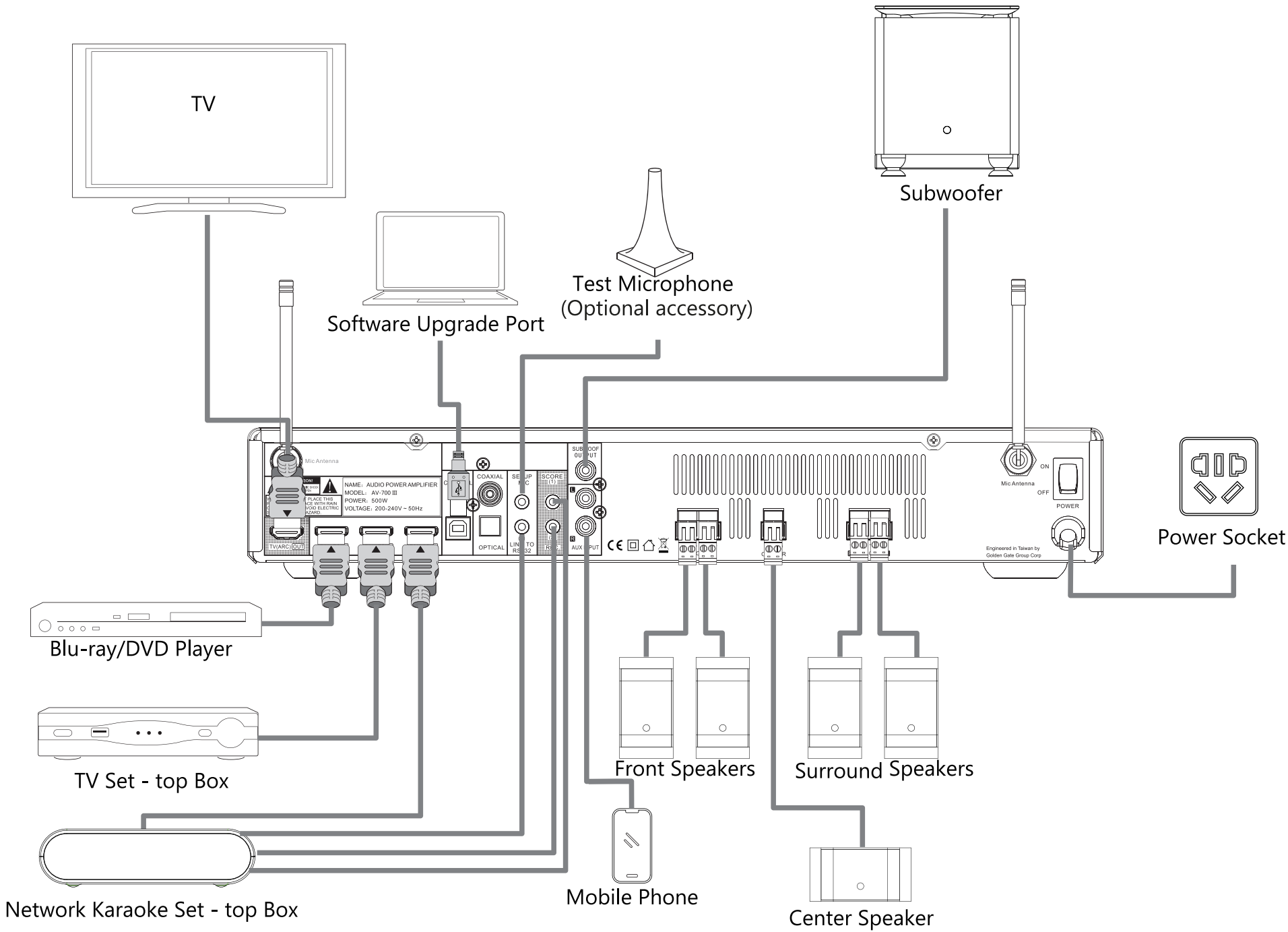
Main Unit 	Remote Control 	Amplifier Connectors 	Antennas 
AAA Batteries 	User Manual, Certificate of Conformity, Warranty Card 	HDMI Cable 	

Note: The illustrations in this manual are schematic diagrams and may differ from the actual product.

II.Parameter

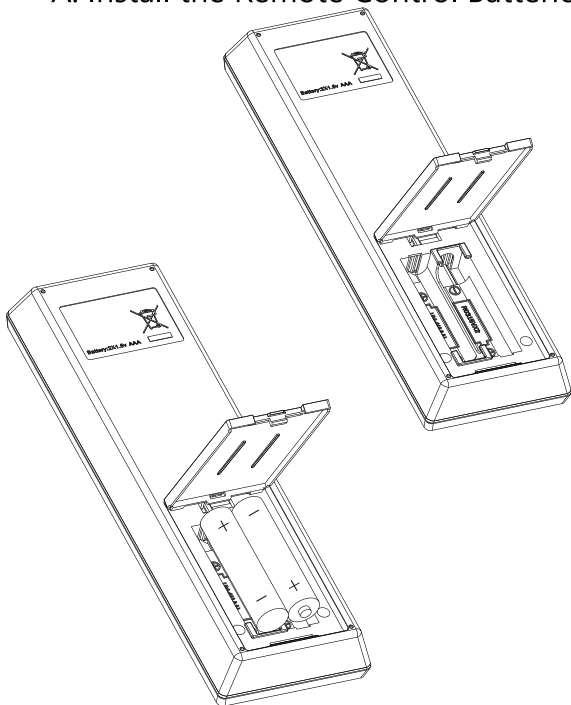
Number of Channels	5
Output Power	100W (per channel, dynamic)
Frequency Response	20Hz ~ 20kHz (0 ~ -2dB)
Distortion	< 0.03%
Noise	< -65dBu
Signal-to-Noise Ratio	≥ 93dB
Channel Isolation	> 75dB
Input Sensitivity	0.775 Vrms (0 dBu)
Gain	28.2dB
Power - on Delay	10 ~ 15 seconds
Cooling Method	Variable - speed fan
Power Requirement	200 - 240VAC, 50Hz
Net Weight	6.2KG
Dimensions	W430mm * D270mm * H68mm

III. Connection Diagram



IV. Simple Operation Instructions

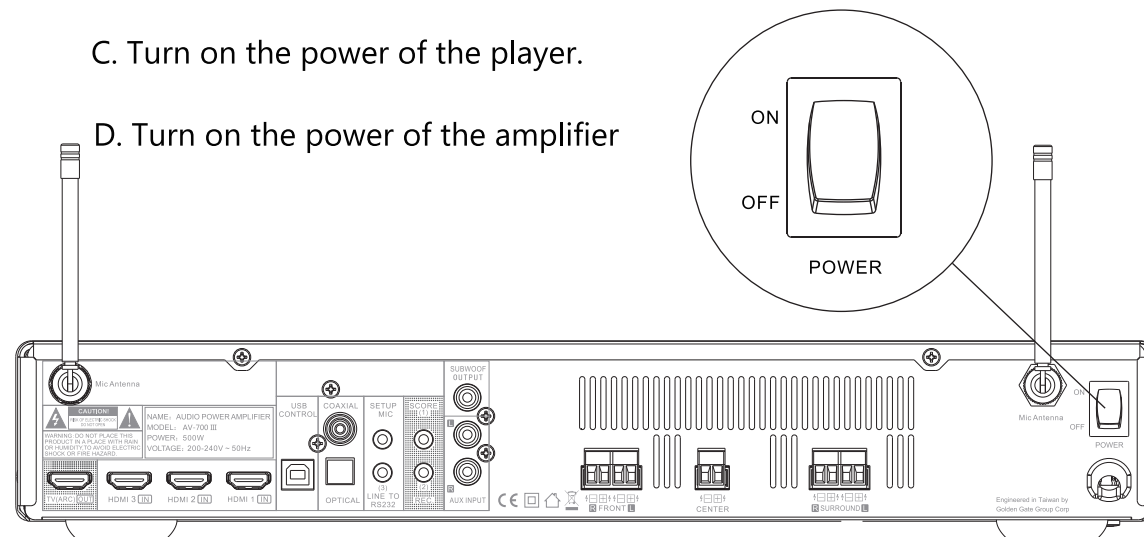
A. Install the Remote Control Batteries



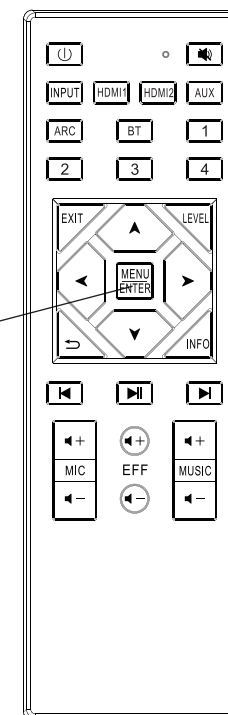
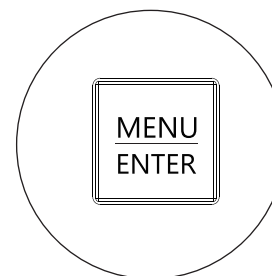
B. Turn on the TV and select the corresponding HDMI input.

C. Turn on the power of the player.

D. Turn on the power of the amplifier



E. Speaker Device Selection: Press the "Menu/Confirm" button on the amplifier remote control to enter the main menu. Then, use the navigation keys to enter the "Speaker Device" menu. Next, select the product model corresponding to the speaker connected to the amplifier, and press the Menu/Confirm button on the amplifier remote control to confirm.

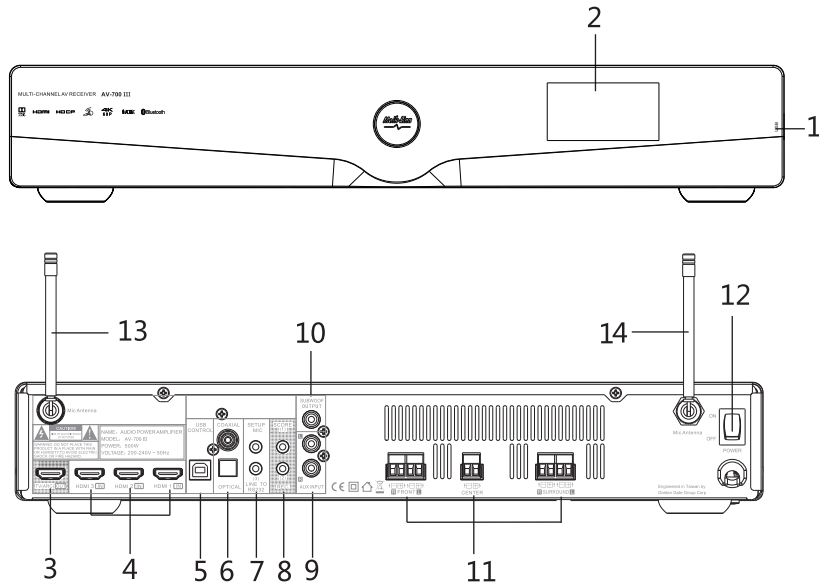


Note:

Power - on Sequence: TV → Player → Amplifier

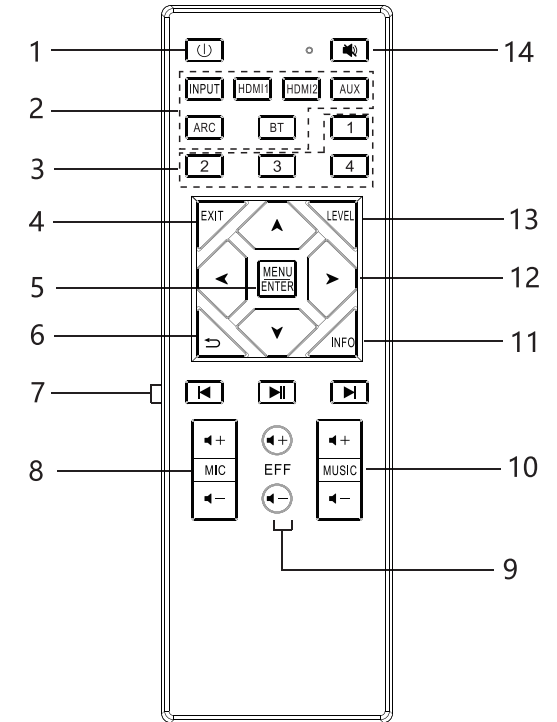
Before powering on, ensure that all relevant devices and cables are properly connected; then power on the devices.

V. Front/Rear Function Panel Layout



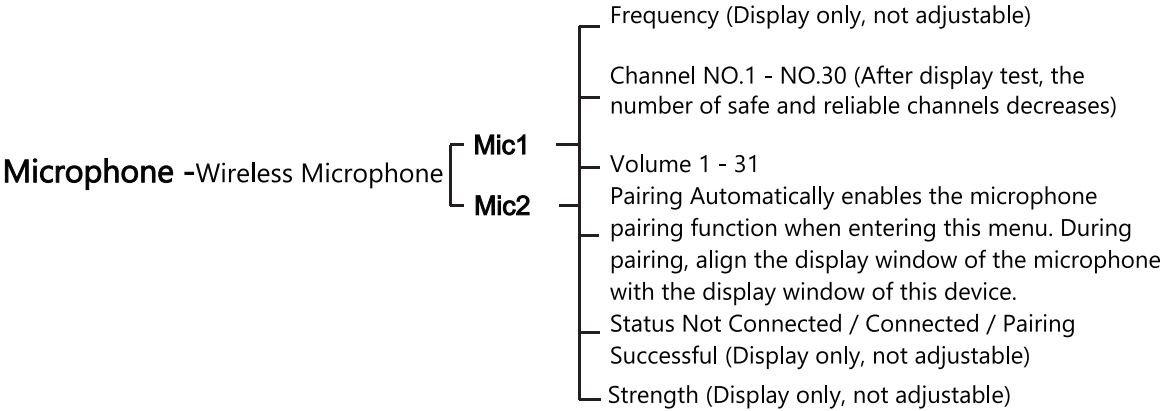
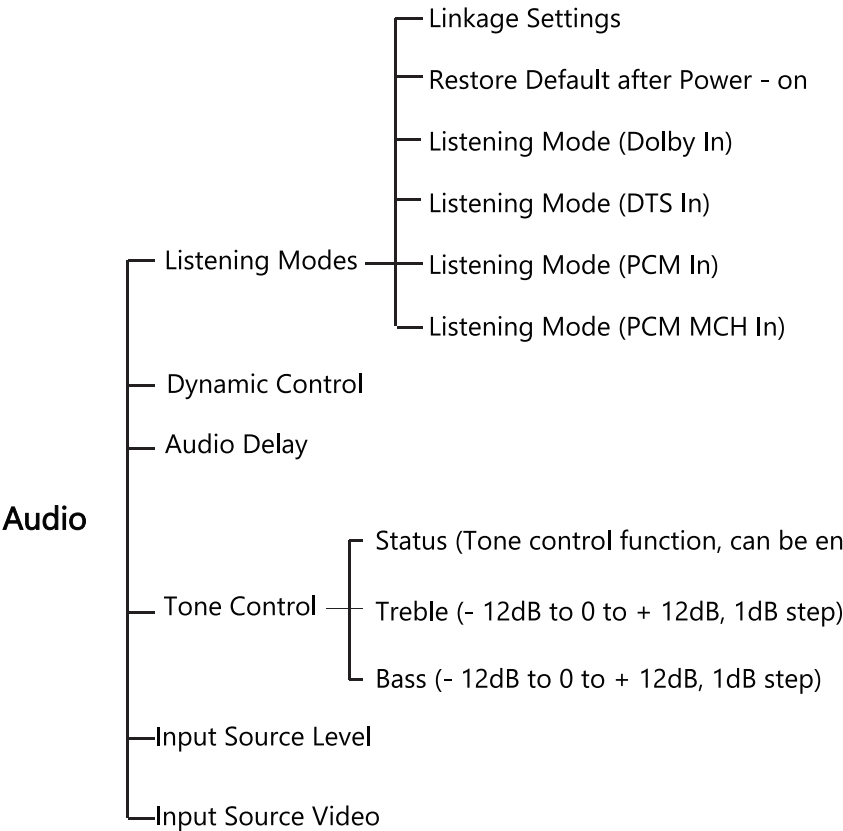
- 1.USB Playback Port
- 2.LCD Display Screen
- 3.TV/ARC Output
- 4.HDMI Input Port
- 5.USB Debugging and Upgrade Port
- 6.Digital Input (Optical OPTICAL / Coaxial COAXIAL)
- 7.RS232 Output Port (LINE TO RS232) / Setup Microphone (SETUP MIC)
- 8.Recording Port (REC) / Microphone Sub - port (SCORE)
- 9.Analog Input (AUX)
- 10.Subwoofer Output Port
- 11.Speaker Out
- 12.Power Switch
- 13, 14. Microphone Signal Receiving Antennas

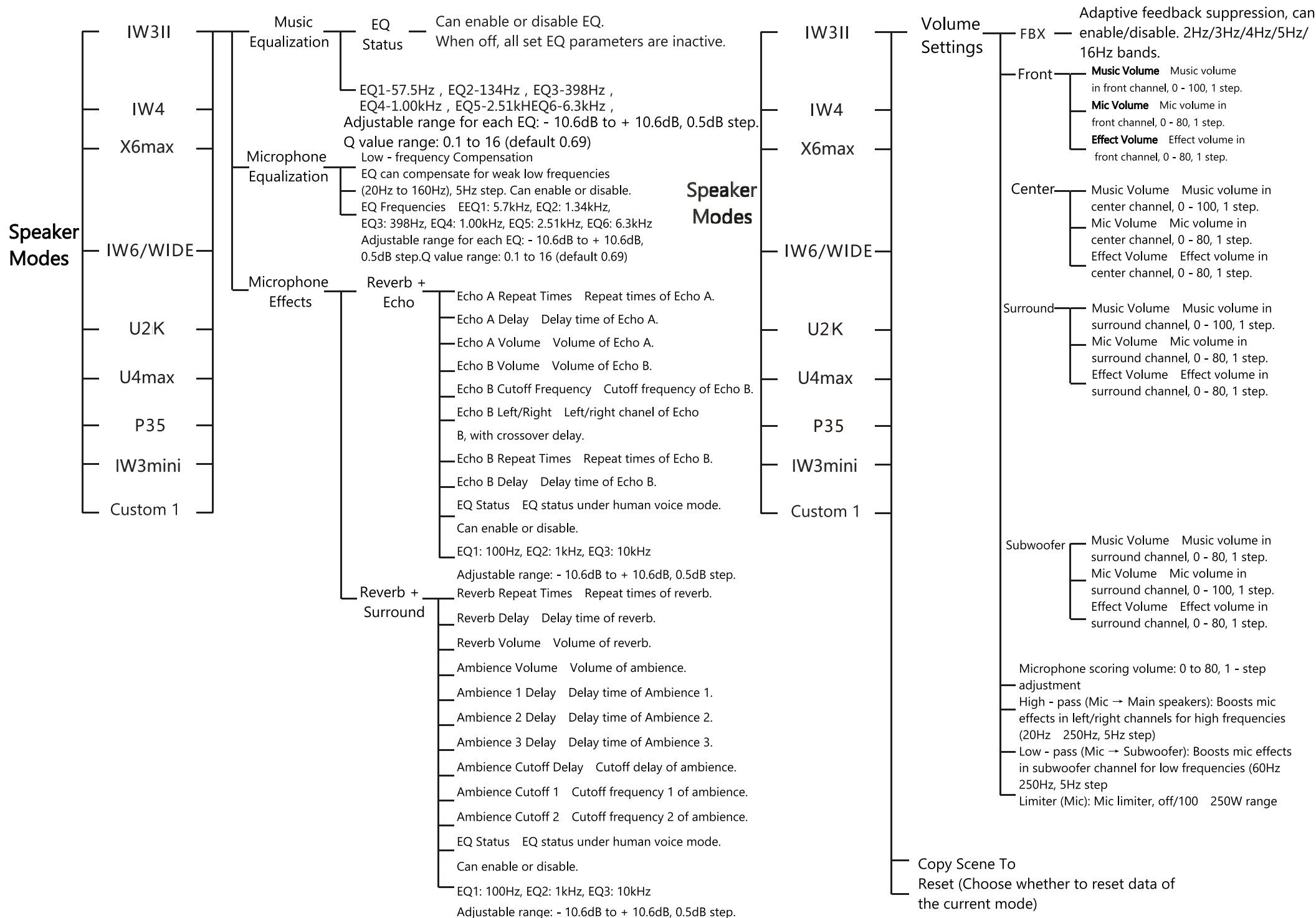
VI. Remote Control Panel Layout

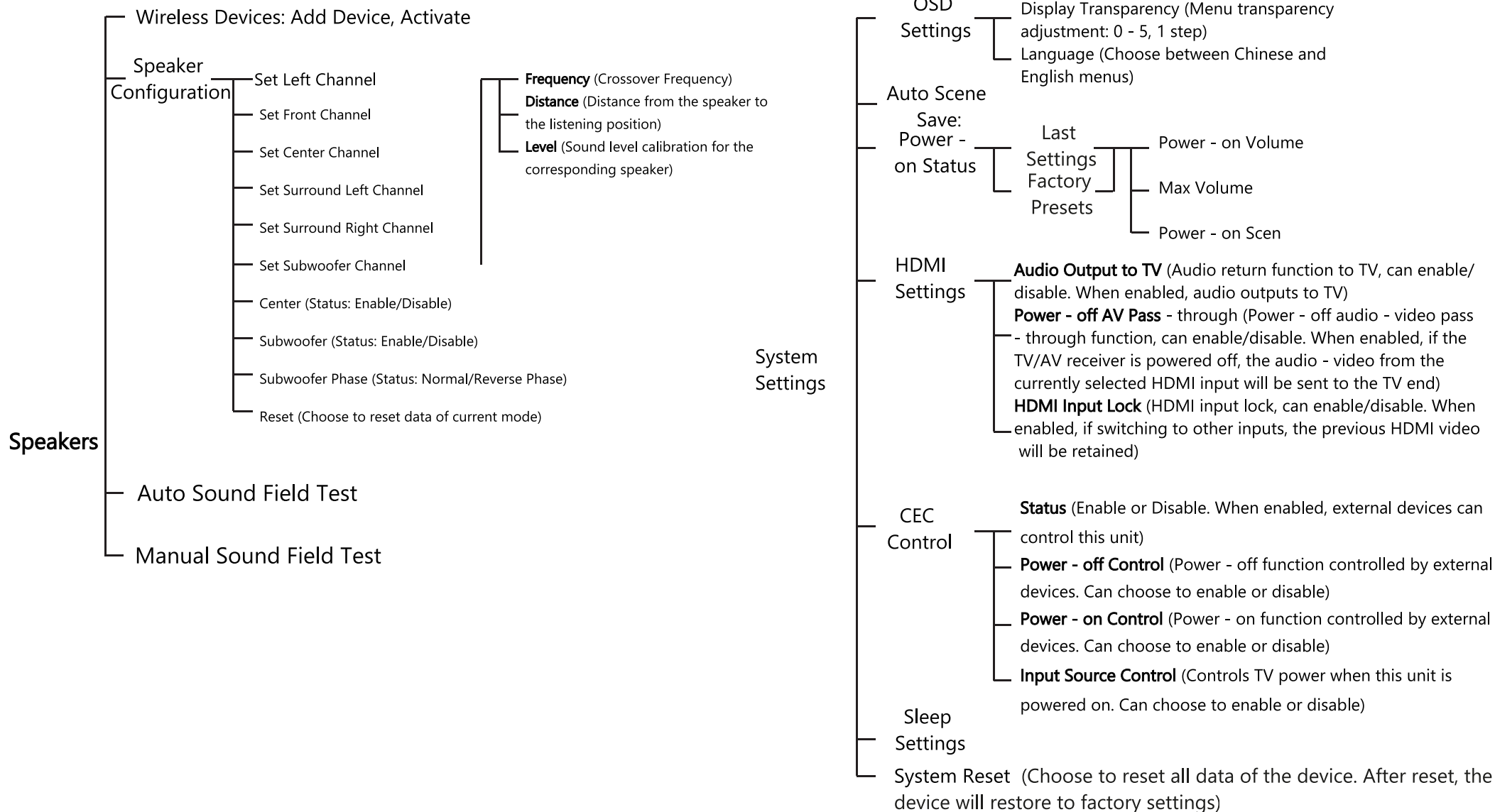


- 1.Power On and Standby
- 2.Input Source Selection
- 3.Numeric Keys (Temporarily Unusable)
- 4.Exit Current Menu
- 5.Menu/Confirm Key
- 6.Return Key
- 7.Bluetooth and USB Playback Control:
Includes playback mode selection, previous track,
play/pause, next track
- 8.Microphone Volume Adjustment Keys
- 9.Microphone Effect Adjustment Keys
- 10.Music Volume Adjustment Keys
- 11.Input Source Information Display
- 12.Menu Navigation Keys
- 13.Channel Level Adjustment
- 14.Mute Key

VII. Menu Instructions







VIII. Speaker Device Settings

You can go to " Menu" → " Speaker Device" to select a speaker device, press the confirm key to use the speaker device, or press the right direction key to enter the specific parameter settings of the selected speaker device.

This unit has 6 types of speaker modes for selection, namely " IW3II" , " IW4" , " X6max " , " IW6/WIDE" , " U2K" , " U4max " , " P35" , " IW3mini " , "Custom 1" . Each speaker mode has a different sound style.

The parameters that can be set for each speaker device include " Music Equalization" , " Microphone Equalization" , " Microphone Effects" , and " Volume Settings" . You can modify each speaker device and enter the menu to try a sound style according to your personal listening preferences and save it.

" Music Equalization" : Adjust the frequency response curve of the input source audio signal. This equalizer is a 7 - band parametric equalizer, and the frequency points and Q values can be set.

" Microphone Equalization" : Adjust the frequency response curve of the microphone. This equalizer is a 7 - band parametric equalizer, and the frequency points and Q values can be set.

" Volume Settings" : Adjust the volume and proportion of speakers in each channel.

Listening Mode Settings

This setting can convert the input source signal into the listening mode you like. First, go to Menu → Audio → Listening Mode to select the mode you want to convert:

Source Code: According to the signal type of the input source, no conversion is done.

Auto: Convert the signal of the input source to multi - channel output.

Dolby PLII: This mode uses Dolby PLII to extend various sound sources into natural and realistic multi - channel playback.

Stereo: This mode is used to enjoy the stereo sound output from the main channel speakers.

Settings

1. Menu Display Settings

Menu Language: " Menu" → " System" → " OSD Settings" → " Language" , available in Chinese and English.

Menu Transparency: " Menu" → " System" → " OSD Settings" → " Transparency" , selectable range 0 - 5, the higher the number, the more transparent.

2. Audio

Audio Delay Settings This setting can be aimed at the situation where the picture and sound are not synchronized and the audio appears before the picture. You can go to " Menu" → " Audio" → " Audio Delay" to set the delay time, in milliseconds.

3. Crossover Frequency

The crossover frequency is the boundary of the reproduction frequency between this unit and the subwoofer, ensuring that both this unit and the subwoofer work in a suitable frequency range. You can set the crossover frequency in " Menu" → " Speaker" → " Speaker Configuration" .

The default crossover frequency is " 120Hz" . If you want the subwoofer to reproduce a fuller mid - frequency, we recommend setting a higher frequency than this. The frequency part lower than the crossover frequency will be attenuated. The attenuated low - frequency content will be output from the subwoofer.

Microphone Bass Adjustment

This setting can enhance the microphone bass. Go to " Menu" → " Scene" → select the scene you want to adjust → " Volume Settings" → " Low - pass (Microphone → Subwoofer)" to set the upper limit of the microphone frequency in the subwoofer.

4. Power - on Status Settings

In " Menu" → " System" → " Power - on Status" , select " System Preset" , then you can set the power - on volume and power - on mode below. You can also select " Last Settings" in " Power - on Status" , so that the next power - on will be the same as the state before the last power - off.

5. Restore Factory Settings

" Menu" → " System" → " Restore Factory settings"

6. Input Source Level

When multiple playback devices are connected, this setting can balance the level values of different playback devices. Go to " Menu" → " Audio" → " Input Source Level" to set the level values for various input interfaces.



Manufactured under license from Dolby Laboratories.

Dolby, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories.

Important Precautions

When using this product, do not use low - quality external wired or wireless microphones. Try to choose matching devices recommended by the manufacturer. The stability and sound quality of wireless microphones are closely related to batteries. Use alkaline batteries or nickel - metal hydride rechargeable batteries from regular manufacturers. Poor - quality microphones have bad frequency response, which will seriously affect singing effects, such as dry, thin, distorted human voices and easy howling . Meanwhile, if the shielding of the microphone cable is poor, the cable is prone to induced noise, causing unnecessary noise from the speaker.

During singing, avoid howling caused by the microphone being too close to the speaker. Severe howling can easily damage the power amplifier and the speaker. To avoid howling, keep the microphone as far away from the speaker as possible. At the same time, appropriately reduce the microphone volume and attenuate the microphone treble. Do not knock the microphone or pull the microphone cable.

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E-mail: sales@tao-an.com
[https:// www.mackenlin.com/](https://www.mackenlin.com/)



保修政策和注意事项

感谢您购买 Macken-lin 产品。如果自购买之日起12个月内出现产品质量问题，您可以享受公司的保修服务。

注意：

- 1.购买时卖方必须出具有效的购买证明。
- 2.保修卡和购买凭证由用户妥善保管，不得丢失，丢失后不得重复发放。
- 3.如果本产品出现非人为原因造成的故障，用户可使用保修卡和购买证书在保修期内到客户服务中心进行维修。

非保修情况：

在用户操作过程中，满足以下条件之一且不在保修范围内的设备。

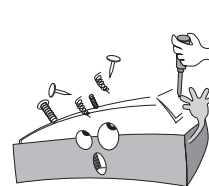
- 1.超过保修期。
- 2.未按照用户使用说明书的要求使用而造成的损坏。
- 3.人为因素造成的损害。
- 4.未经授权的产品拆卸、维修和修改导致的故障。
- 5.不可抗力因素(如洪水、地震、雷电等)造成的损害
- 6.无保修卡、发票或保修卡与发票信息不匹配。
- 7.产品自然磨损。
- 8.其他非产品质量问题造成的故障和损坏。

注意事项

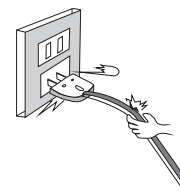
- 拆开包装箱后请先确认产品是否因运输途中受到损伤，并核对随机附件是否齐全。
- 请确保本设备连接到带有接地连接的电网电源插座上。
- 请确保电源插头、器具耦合器等断开装置能方便操作。
- 本设备上不得放置任何装有液体的器皿，不得暴露于滴水、溅水环境。

使用注意事项

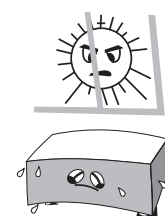
安全注意事项



请勿打开机盖



注意电源线



防止高温

- 1、打开机盖有可能发生触电危险！注意勿让针、硬币等金属物件进入机器内。
- 2、勿将机器放置于烈日下曝晒或靠近发热设备的位置。
- 3、从插座拔出电源插头时切勿拉扯电源线，应该抓住插头将其拔出。长时间不使用机器时需将电源插头拔离电源插座。



警告使用者，产品
内部带有危险电压



提示用户，产品附
有重要操作说明

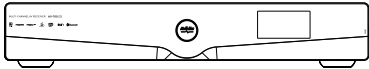
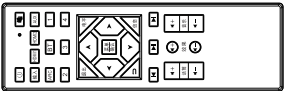
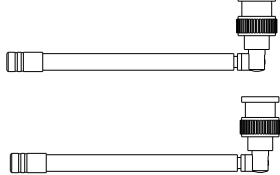
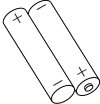
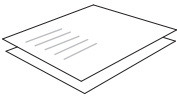


请勿让本机受雨水或
湿气影响，以免发生
自燃或触电的危险。

目录

1.包装盒中的物品清单.....	1
2.规格参数.....	1
3.连接图.....	2
4.简单操作说明.....	3
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6.遥控器面板布局.....	4
7.菜单说明.....	5
8.音箱设备设置.....	8
9.必须注意的事项.....	9
10.关于Dolby.....	9

一、包装盒中的物品清单

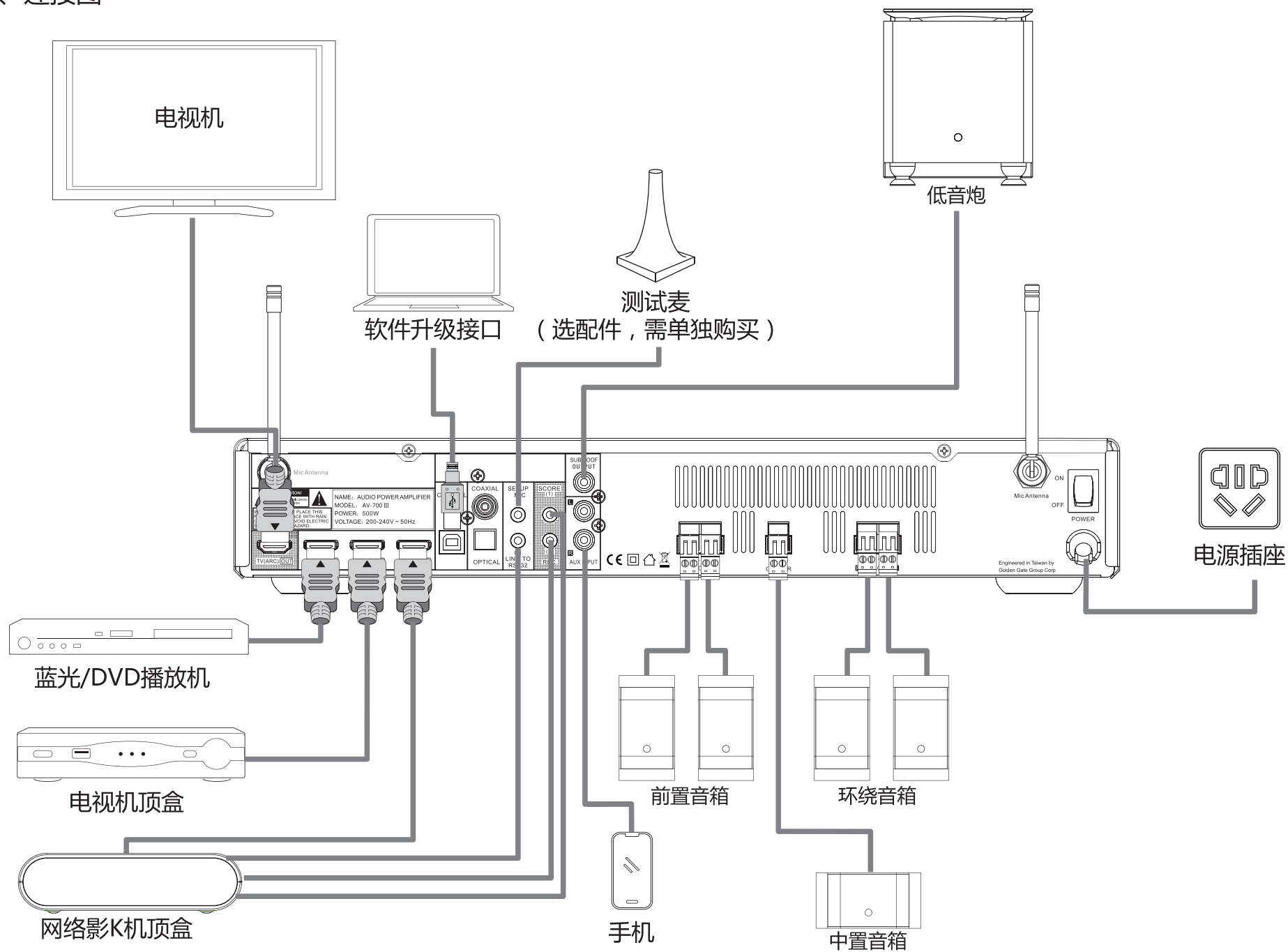
主机 	遥控器 	功放 插接件*3 	天线*2 
AAA电池*2 	说明书. 合格证. 保修卡 	HDMI线 	

请注意，本手册中的插图为示意图，可能和实物有差异。

二、规格参数

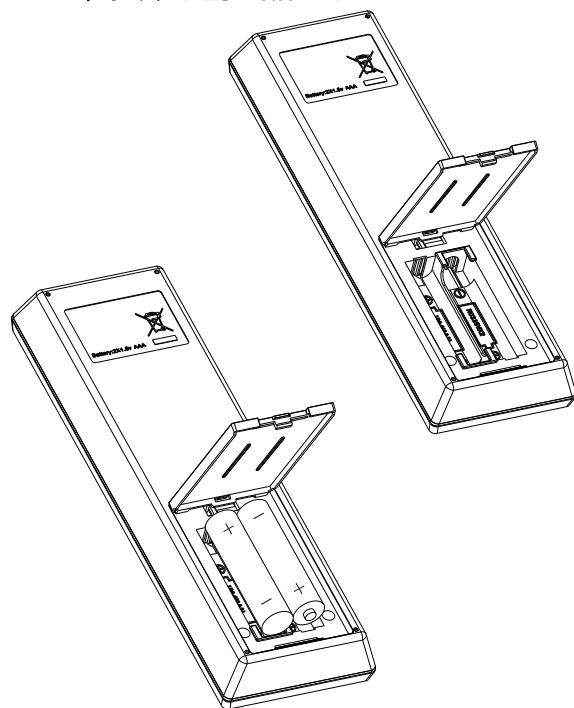
通道数量	5
输出功率	100W(每通道/动态)
频率响应	20Hz~20kHz (0~-2dB)
失真	<0.03%
噪声	<-65dBu
信噪比	≥93dB
通道隔离度	>75dB
输入灵敏度	0.775 Vrms (0 dBu)
增益	28.2dB
开机延时	10~15秒
冷却方式	变速风扇，空气从前往后流通
电源要求	200-240VAC，50Hz
净重	6.2KG
外形尺寸	W430mm*D270mm*H68mm

三、连接图



四、简单操作说明

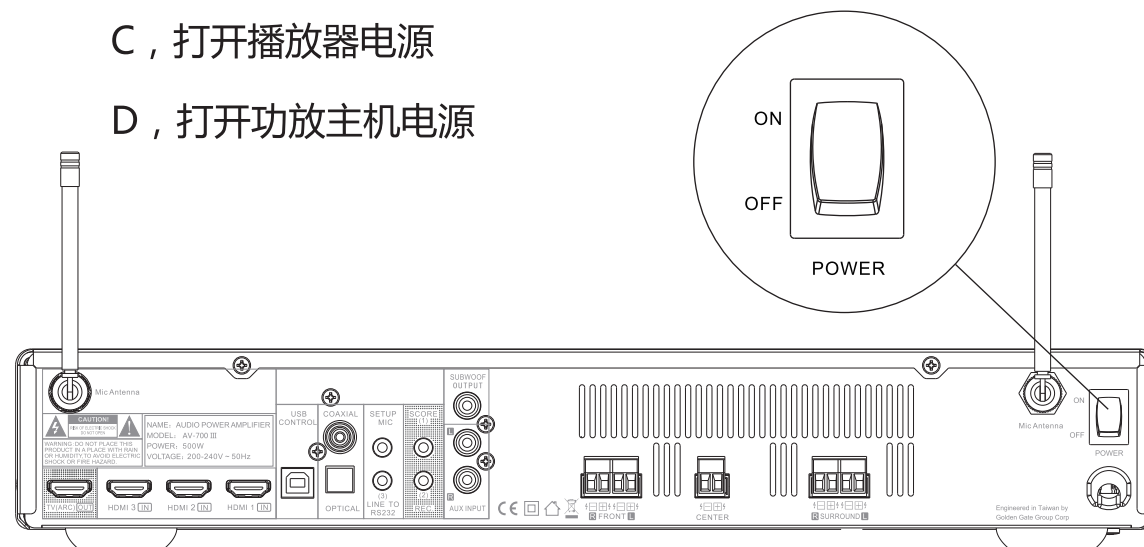
A, 安装遥控器电池



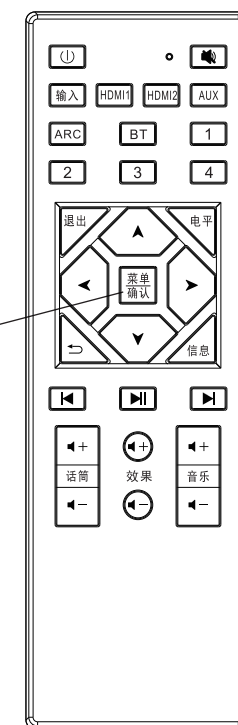
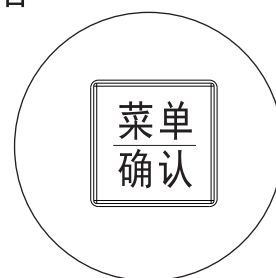
B, 打开电视机, 并选择相应的HDMI输入

C, 打开播放器电源

D, 打开功放主机电源



E, 音箱设备选择: 按功放遥控器“菜单/确认”键, 进入主菜单后, 使用导航键进入“音箱设备”菜单, 然后选择与功放连接音箱相对应的产品型号, 后按功放遥控器“菜单/确认”键确认。

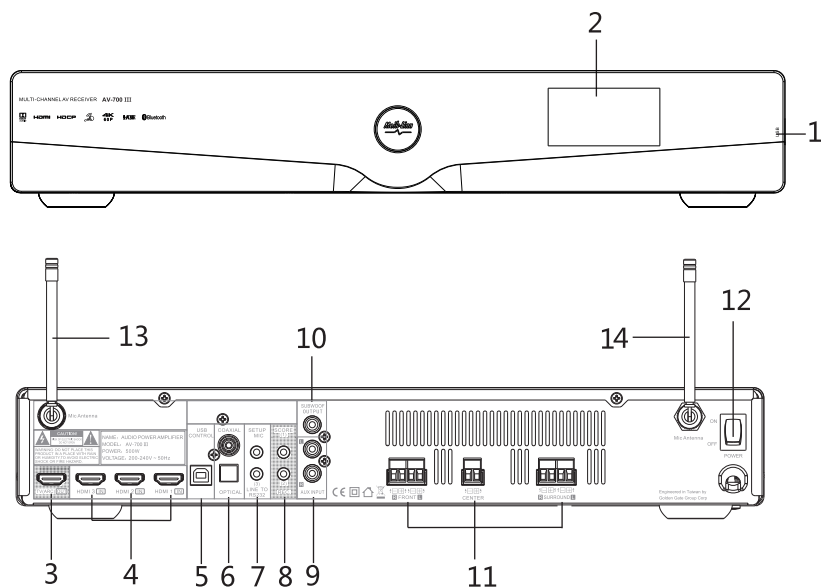


注意:

开机顺序: 电视—播放器—功放

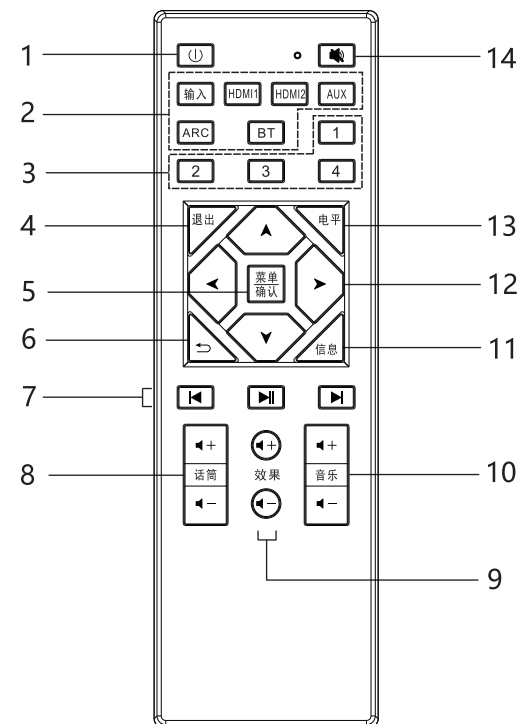
在开机前; 确保所有相关设备及线材接好; 再通电开机。

五、前/后功能面板布局



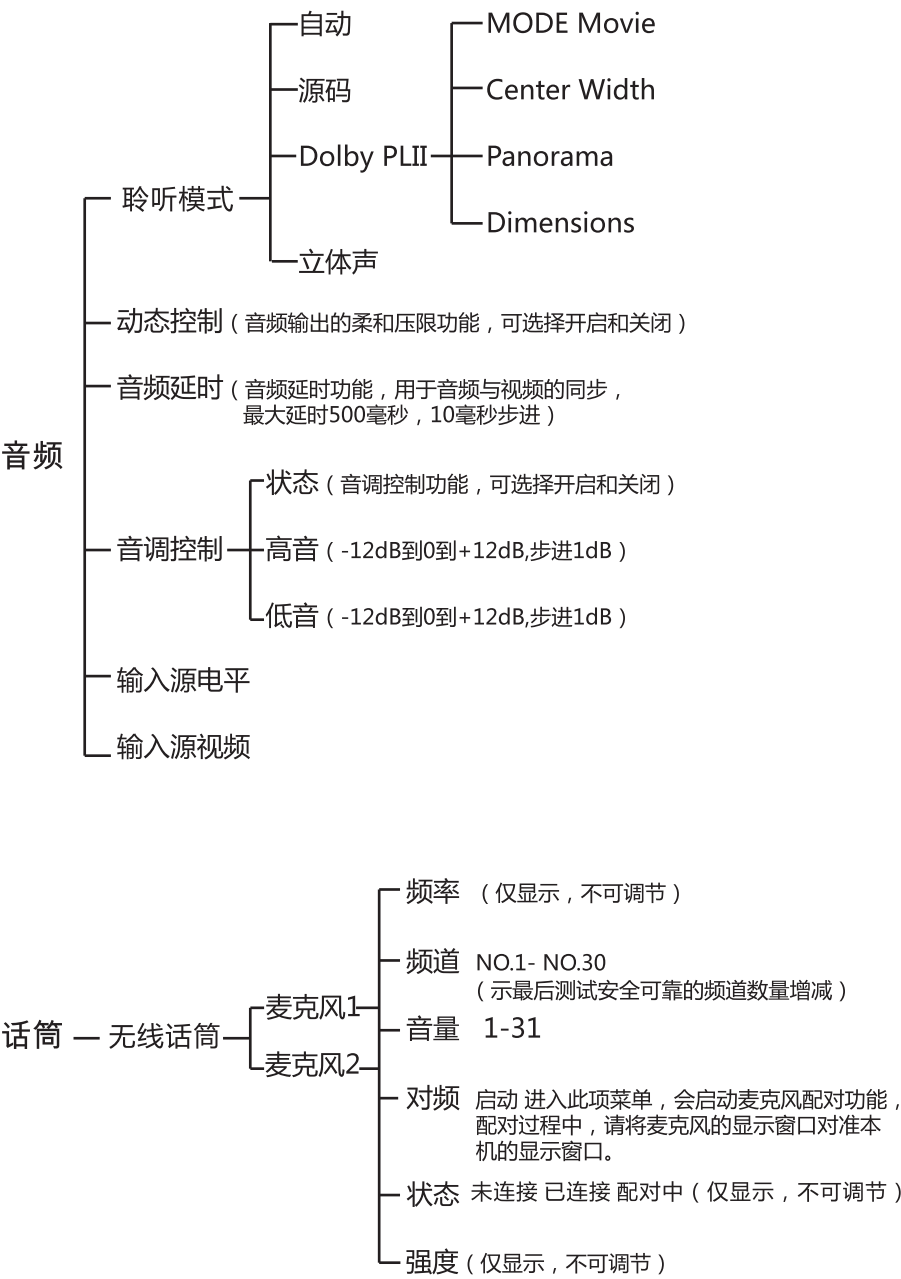
- 1、U盘播放口 2、LCD显示屏 3、TV/ARC输出
- 4、HDMI输入口 5、USB调试升级口
- 6、数字输入口（光纤OPTICAL/同轴COAXIAL）
- 7、RS232输出接口（LINE TO RS232）/测试麦（SETUP MIC）
- 8、录音端口（REC）/麦克风评分口（SCORE）
- 9、模拟输入（AUX） 10、低音炮输出口
- 11、音箱输出口 12、电源开关
- 13、14、麦克风信号接收天线

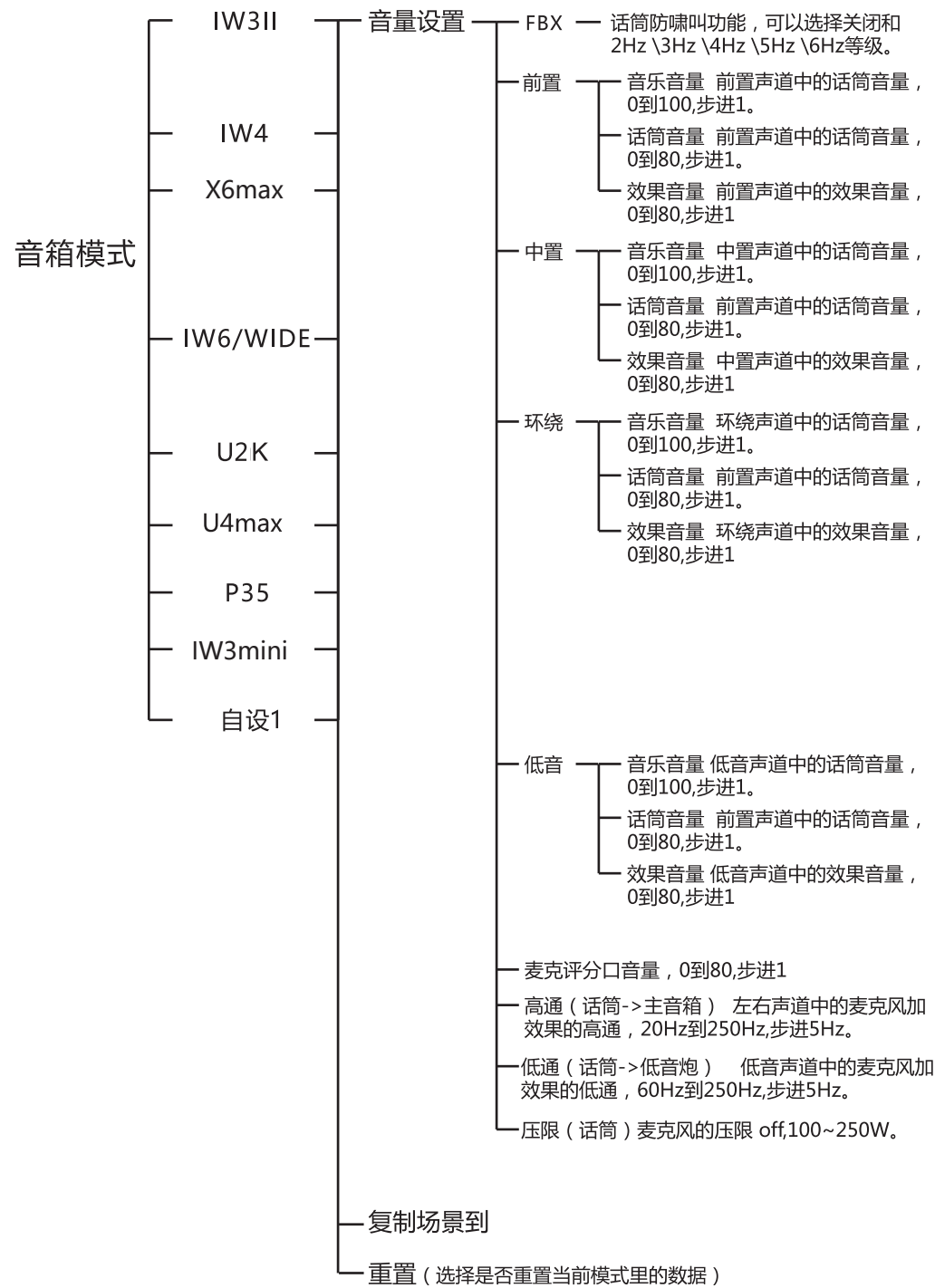
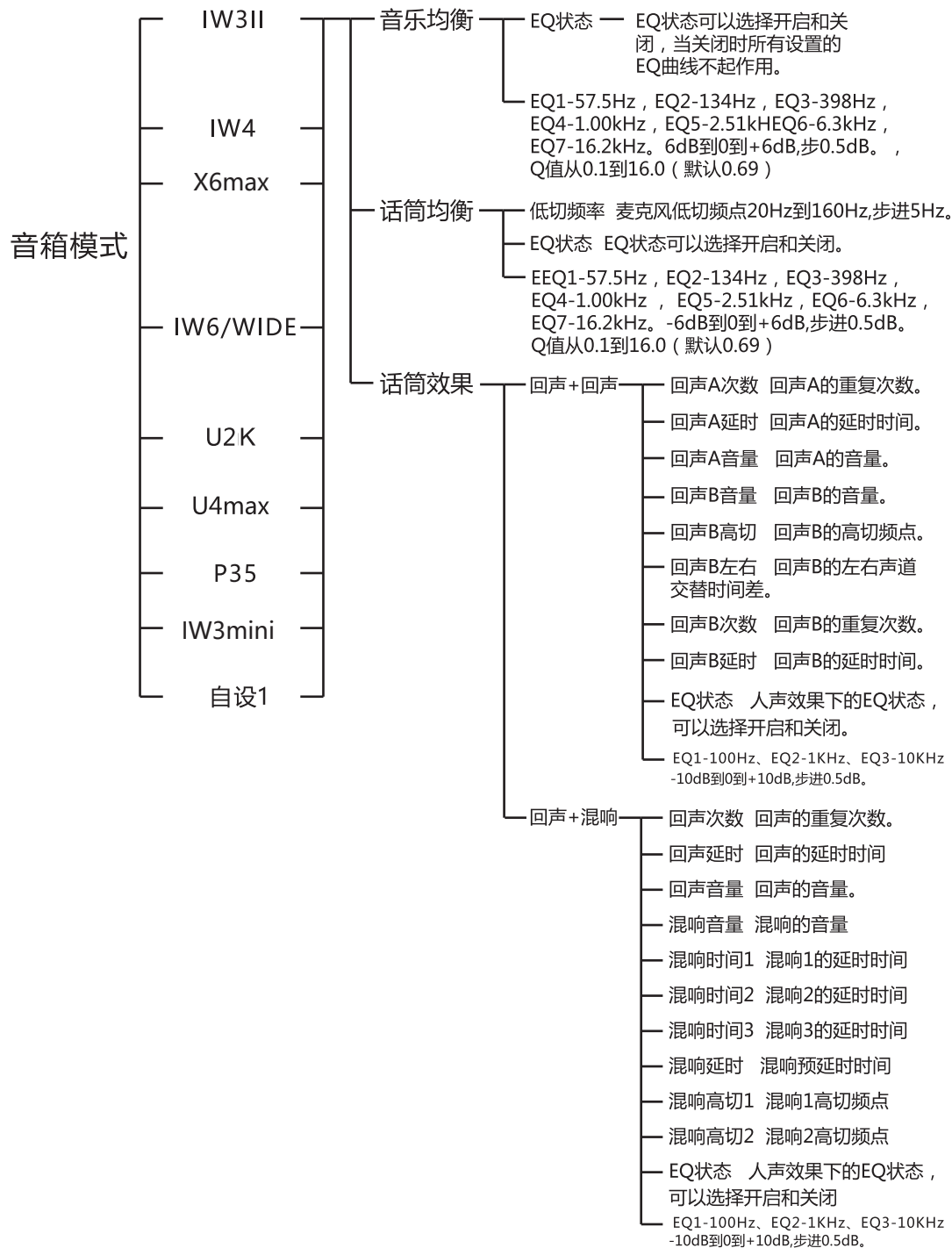
六、遥控器面板布局

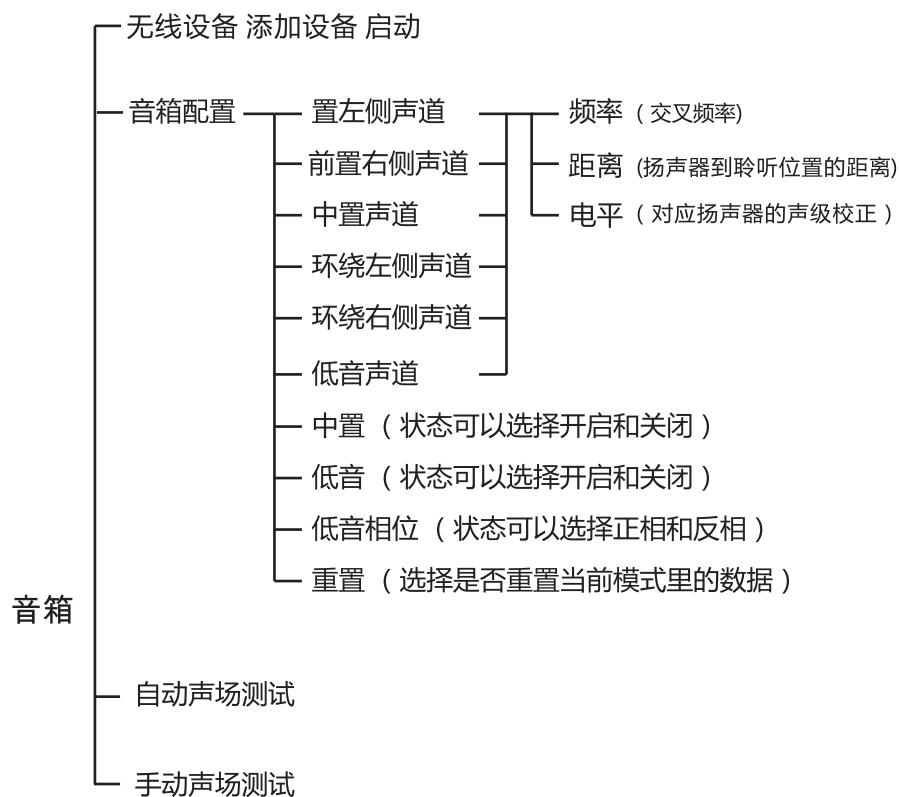


- 1、开机和待机
- 2、输入源选择
- 3、数字键(暂时无作用)
- 4、退出当前菜单
- 5、菜单/确认键
- 6、返回键
- 7、蓝牙、U盘播放控制，分别为播放模式选择、上一曲、播放/暂停、下一曲
- 8、麦克风音量加减键调节
- 9、麦克风效果加减键调节
- 10、音乐音量加减键调节
- 11、输入源信息显示
- 12、菜单导航键
- 13、各通道电平调节
- 14、静音键

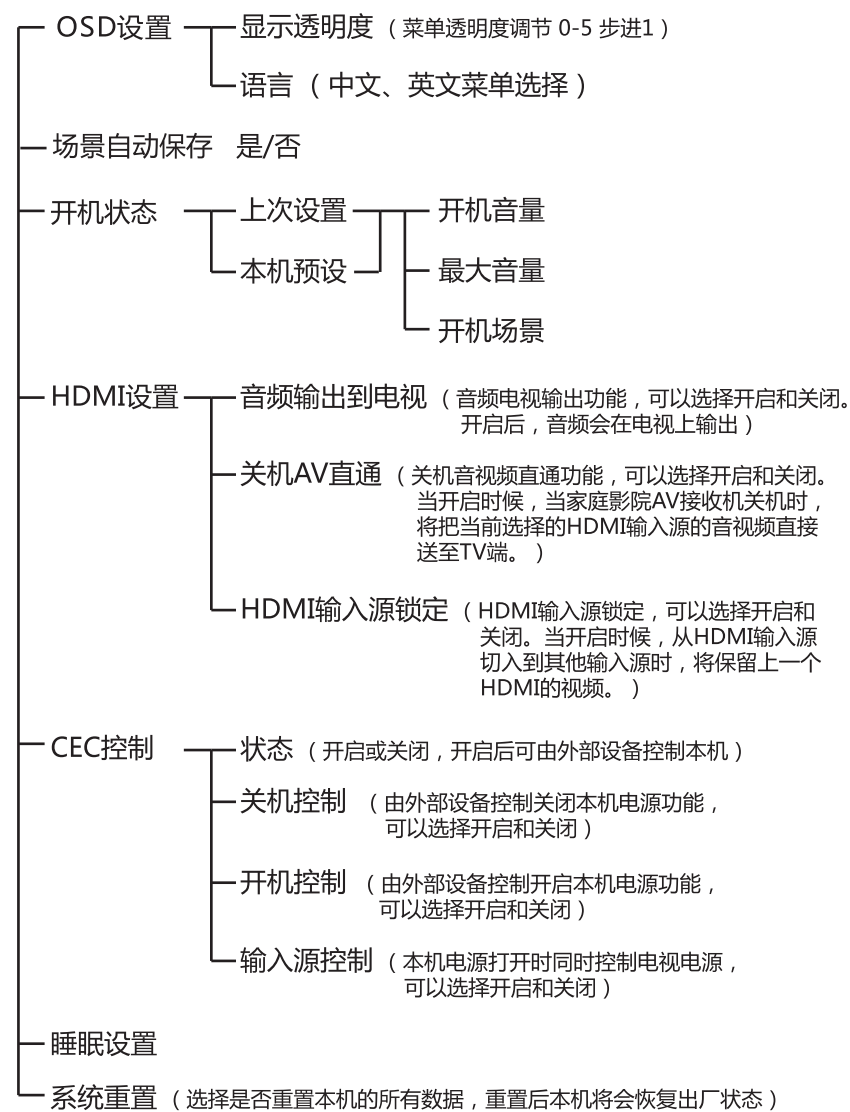
七、菜单说明







系统设置



八、音箱设备设置

您可要通过“菜单”→“音箱设备”选择一种音箱设备，按确认键调用该音箱设备，或按方向右键进入所选音箱设备具体参数设置。

本机带有6种音箱模式可供选择，分别是“IW3II”，“IW4”，“X6max”，“IW6/WIDE”，“U2K”，“U4max”，“P35”，“IW3mini”，“自设1”，每种音箱模式有不同的声音风格。

每个音箱设备可设置的参数包括“音乐均衡”，“话筒均衡”，“话筒效果”，“音量设置”选项。您可以修改每个音箱设备，并进入菜单针对您的个人听音喜欢调试一种声音风格并存储。

“音乐均衡”：调整输入源音频信号的频率响应曲线，此均衡器为7短参量均衡，频点与q值可设置。

“话筒均衡”：调整话筒的频率响应曲线，此均衡器为7短参量均衡，频点与q值可设置。

“音量设置”：调整各通道音箱的音量与比例。

聆听模式设置

此项设置可以使输入源信号转换成您喜欢的聆听模式。首先将“菜单”→“音频”→“聆听模式”中选择您想转换的模式：

源码：按照输入源的信号类型，不做转换

自动：将输入源的信号转换位多通道输出

Dolby PLII：此模式采用Dolby PLII将各种声源延伸为自然且真实的多声道播放。

立体声：该模式用于欣赏从主通道扬声器输出的立体声声音。

设置

1、菜单显示设置

菜单语音：“菜单”→“系统”→“OSD设置”→“语音”，有中文和英文可供选择。

菜单透明度“菜单”→“系统”→“OSD设置”→“透明度”，选择范围0-5，数字越高越透明。

2、音频

音频延时设置

此项设置可针对画面与声音不同步，音频比画面先出现的情况，可在“菜单”→“音频”→“音频延时”设置延时时间，单位为毫秒。

3、交叉频率

交叉频率是设置本机与低音炮的重放频率分界线，保证本机与低音炮都在工作在适合的频响范围。可以在“菜单”→“音箱”→“音箱配置”中设置交叉频率。

默认交叉频率是“120Hz”，如果您想让低音炮重放出更饱满的中频时，我们建议设置为比此频率更高的频率。低于交叉频率的频率部分将被衰减。衰减后的低频内容将从低音炮中输出

话筒低音调节

此项设置可增强话筒低音，在“菜单”→“场景”→选择想要调节的场景→“音量设置”→“低通（话筒→低音炮）”设置低音炮中话筒频率的上限。

4、开机状态设置

在“菜单”→“系统”→“开机状态”中选择“系统预设”之后，可在下方设置开机音量与开机模式。您也可以在“开机状态”中选择“上次设置”，这样下次开机则与上次关机前的状态一样。

5、恢复出厂设置

“菜单” → “系统” → “恢复出厂设置”

6、输入源电平

在您接入了多款播放设备时，此项设置可平衡各种播放设备的电平值，在“菜单” → “音频” → “输入源电平”中，针对各种输入接口设置电平值。

必须注意的事项

在使用本产品时，不要使用劣质的外设有线或者无线话筒，尽可能选购厂家推荐的匹配设备。无线话筒的稳定性和音质与电池有很大关系，请使用正规厂家的碱性电池或者镍氢充电电池。劣质话筒的频响不好。会严重影响演唱效果，如：人声干涩、不饱满、失真、容易啸叫等。同时，话筒引线屏蔽不好时，引线容易感应杂音，使扬声器产生不必要的噪声。

演唱时，必须避免话筒离音箱太近引起的啸叫，严重的啸叫容易损坏功率放大器和扬声器。为避免啸叫，应注意使用话筒尽量远离扬声器箱。同时，适当减小话筒音量和衰减话筒高音。不要敲击话筒或拉扯话筒引线。



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