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A28

电子管与晶体管混合放大器
Integrated Stereo Amplifier



使用说明书 / User's Manual

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感 谢

感谢您购买声雅音响的 Hi-Fi 产品！

我们相信,对高品位音响产品的不懈追求,是我们的责任,也是您的理想。

为使**A28电子管与晶体管混合放大器**更好地发挥它的性能,给你带来更大的乐趣,我们建议在连接及操作本系统之前,认真阅读本说明书。

安全警告



警告:为防止起火或触电事故,请不要让机器暴露在雨中或潮湿环境里。机内有危险的高电压配件,因而不要打开机盖维修时只可委托给合格的维修人员。

危险电压:为减少电击危险,请勿擅自拆卸盖子(或后板)。

请注意:装置内部并无用户自行检修的零部件,需要检修时,请委托经销商或合格的人员。

设备仅适用于热带气候条件下安全使用,最高操作温度为45°C;
设备仅适用于海拔5000m及以下地区安全使用;
设备使用器具耦合器作为断接装置;

A28是从原来A17CSII功放基础上改良而成的升级产品,配有同轴、光纤、蓝牙等数码信号输入功能。

机内音频信号放大电路使用发烧级电子管,胆味更浓郁,分析力和空气感更佳。

采用电子管与场效应晶体管和集成电路混合型精密高压稳压电源,音色表现不但具有胆味,而且电压稳定性高,交流纹波系数低,比纯晶体管或纯电子管高压稳压电源对音质和音色所产生的好处更加显著。

晶体管功放部分的电压增益级由场效应管组成的共源共基放大模式;甲类电流放大采用东芝牌功率管,音色表现更加厚暖甜润;输出功率为150W(8Ω)×2规格,令声音密度及大动态表现更加优异,轻松驱动各种高级名牌扬声器。

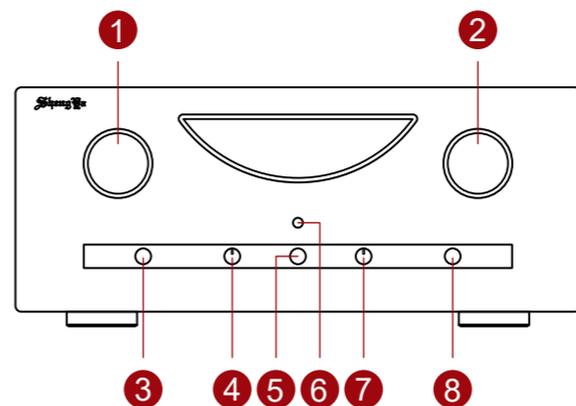
电子管电路交连和退交连电容器为德国WIMA品牌MKP系列高级音响专用电容器。晶体管功放电源所用的滤波电容为日本ELNA品牌FORAUDIO系列10000uf/80v规格,无论音色和音场都有上佳表现;对整机的音质和音色提高起重要作用。

机内所使用的信号输入和输出线均为单晶铜高级音频信号线,令音色表现更加锦上添花。

采用日本制造的ALPS大型遥控式音量电位器;具有可靠耐用、噪声低、无音染、两声道间误差小特点。

输出采用大型镀金接线柱可方便与任何音箱线轻易连接,更可采用双线分音接法,使高低音频电流得到理想的传输。

铝合金多功能红外线高级遥控器,令操作手感更佳更时尚。



1 音频输入选择旋钮

此旋钮是对不同的音频信号进行输入选择。
(被选中的音频信号旋钮周围指示灯相应点亮)

2 音量按钮

此旋钮用作音量控制;向右旋时增大,向左旋时减少。
(红色指示灯是延时或机内保护状态指示用)

3 电源开关按钮

此开关用于接通或切断整机交流电源。

4 高音调节旋钮

此旋钮用作控制高音音调的大小;向右旋时增大,向左旋时减少。

5 音调开关按钮

此开关按下时,音频信号经音调控制,可作高低音调校,复位时不经音调控制,此时为原汁原味的音质。

6 遥控接收器

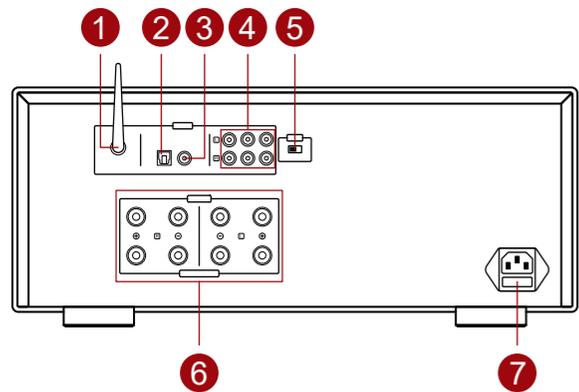
接收遥控器发出的红外线遥控指令信号。

7 低音调节旋钮

此旋钮用作控制低音音调的大小;向右旋时增大,向左旋时减少。

8 等响度开关按钮

在小音量聆听时,按下此按钮来补偿高低音的响度,但音量拧至过半后,作用逐步减少。



1 蓝牙接收器

用于数码设备之间的无线信号连接。

操作实例:

1. 音响组合电源接通后蓝牙进入等待配对状态。
2. 进入手机设置,开启手机蓝牙功能,扫描查找设备;手机会查找到“ShengYa”字样,操作手机与之连接(不用输入密码连接)。
3. 连接后,打开手机音乐播放器,按播放键,声音就会在音响组合器上的喇叭播出。

注意:

1. 如手机蓝牙一直没关闭,与音响蓝牙处于对通状态,当音响组合关机后,下次再开机,蓝牙进入回连状态;10秒钟后回连不上则进入等待配对状态。
2. 音响组合设备与手机蓝牙超出接收距离、断线后,如果60秒钟内回到正常距离,蓝牙可自动回连连接,否则音响组合蓝牙进入等待配对状态。
3. 音响组合蓝牙连接后,与另一台手机的蓝牙连接,需先关闭当前手机的蓝牙功能,再将操作另一台手机蓝牙搜索才可连接。
4. 音响组合蓝牙可以和笔记本电脑,手机,IPDA等数码产品的蓝牙产品设备相连接。

2 光纤数码输入端子

此端子用作连接数字设备的光纤接口。
(电脑/数字游戏机/CD/DVD播放机/高清电视机顶盒)

3 同轴数码输入端子

此端子用作连接数字设备的同轴接口。
(电脑/数字游戏机/CD/DVD播放机/高清电视机顶盒)

4 线路音频输入端子

此端子用作连接音源输出端子。(如音响设备、电脑、手机、MP3等)

5 窗口装饰灯控制开关

此开关用于控制窗口上的背光灯,开启(ON)、关闭(OFF)。

6 左、右声道输出接线柱

可连接阻抗为4-8Ω的音箱;设有两组接线柱,可进行双线分音接法;其中红色为正极,白色为负极。

7 带交流电源保险丝的电源插座

此电源插座用作连接交流电源,保险丝在电源插座下部,更换保险丝时一定要将电源线拔下方可更换。

1 将数字设备(游戏机/电脑主机/DVD播放机/高清电视机顶盒等)的光纤/同轴端子与功放机的光纤/同轴输入端子对应连接

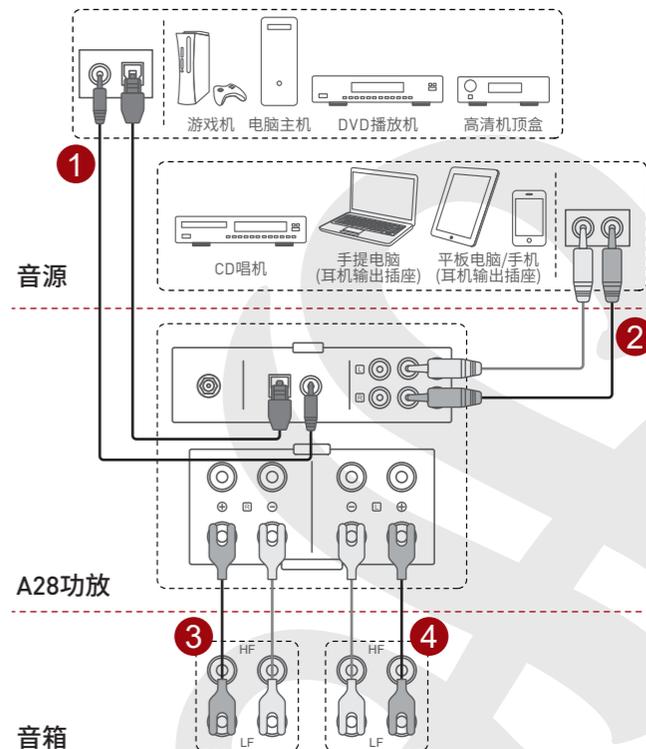
2 信号源(CD唱机/手提电脑/平板电脑/手机)的音频输出端子RCA(不平衡)与左、右声道输入端子RCA对应连接。

3 右声道输出接线柱连接右声道音箱。
(可采用普通接法或双线分音接法;如图示普通接法)

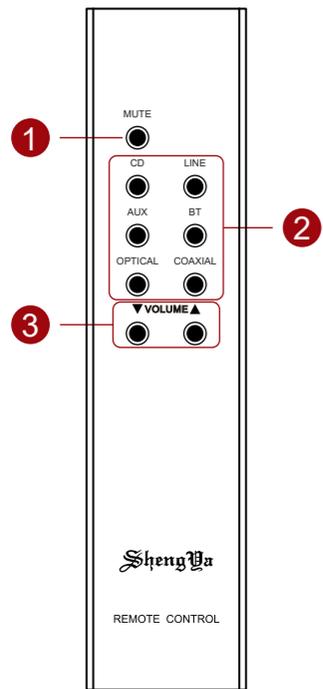
4 左声道输出接线柱连接左声道音箱。
(可采用普通接法或双线分音接法;如图示普通接法)

注意:

红色为正极,白色为负极,音箱与输出接线柱连接时请对应相同极性,否则会影响听音效果。



按键说明



1 MUTE:(静音按键)
按一下此键,机器停止信号输出,同时信号输入指示灯熄灭;音量旋钮指示灯闪烁;再按一下此键则恢复信号输出。

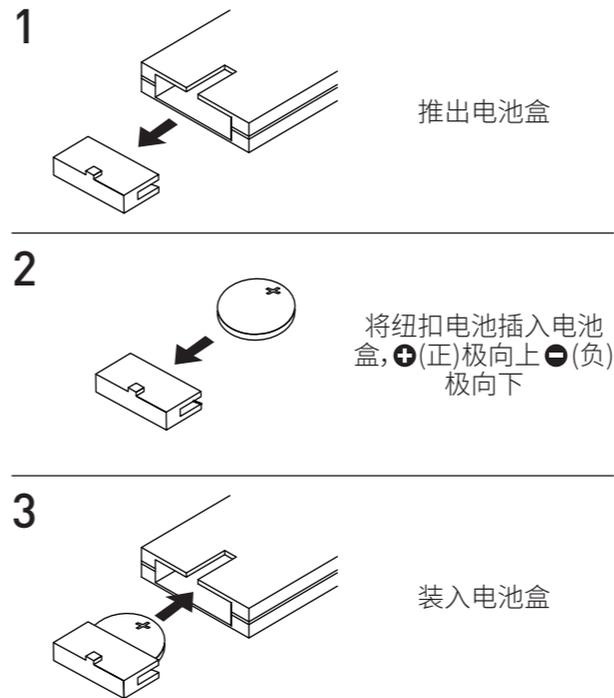
2 CD、LINE、AUX、BT、OPTICAL、COAXIAL:
(信号输入选择按键)
分别为CD、LINE、AUX、蓝牙、光纤、同轴信号输入。

3 ▲VOLUME▼:(音量控制按键)
按此键可控制音量的大小;"▲"为增加音量,"▼"为减小音量。

注意:

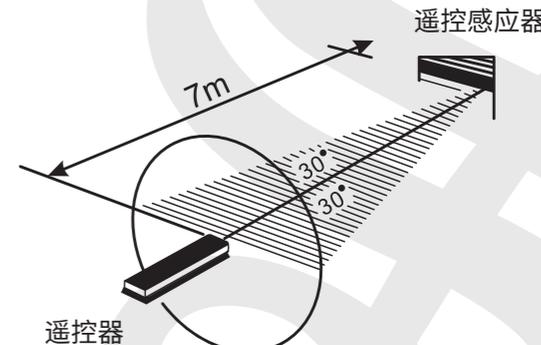
- 1.遥控器不应靠近过热或过潮之处,更不应受阳光直射或强光照射。
- 2.遥控器请勿受到强烈碰撞或从高处跌下,否则会损坏遥控器使其不能正常工作。
- 3.请使用CR2032纽扣电池;勿混用新旧或不同型号的纽扣电池。
- 4.当遥控器长期不用时,请将电池取出,请勿将电池投入火中。
- 5.正常使用情况下,每6个月更换电池一次。

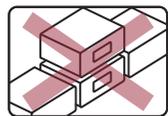
使用准备



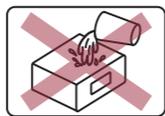
使用操作

- 遥控器有效距离大约7米之内。
- 遥控器的接收角度为30度之内。
- 不可将机器的遥控感应器置于阳光或强光直射之下;因这会导致遥控器无法操作。





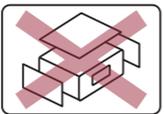
■ 请将本机放置于通风良好以及干燥的地方工作,不要放置在阳光直接照射或靠近热源地方;并注意支承机器的柜台四周要有一定空间,10cm内无任何障碍物;以便机器通风散热。



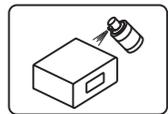
■ 机器上不能放置带液体的容器(如花瓶、水杯、油瓶等),更不可将任何类型的液体洒入机器内,这会造成短路或漏电事故。



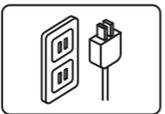
■ 使用电源时请手执插头绝缘部分插入或拔下电源插座,不要直接扯电源线。



■ 不要随便拆开机壳拔弄内部器件,这样会有触电危险。



■ 清洁机壳时,请勿使用具有强烈挥发性有机溶剂(如汽油、苯等)洗擦机面机壳,应用柔软干净的布轻擦。



■ 当您一段长时间不使用本机时请将电源线从插座拔下。

异常现象	原因	解决方法
无声	<ol style="list-style-type: none"> 1. 电源线没接好 2. 交流保险管熔断 3. 音量旋钮在最小位置 4. 输入信号线没有接好 5. 音源未工作或音源不良 6. 音箱连线未接好 7. 机器严重过载 8. 机内直流保险管熔断 	<ol style="list-style-type: none"> 1. 接好电源线 2. 请合格维修人员更换保险管 3. 前级音量调整到适当的位置 4. 接好输入信号线 5. 开启音源或更换其他音源 6. 接好音箱线 7. 关机并检查音箱线是否短接 8. 请合格维修人员更换保险管
有一边声道无声	<ol style="list-style-type: none"> 1. 一边信号输入线未接好 2. 一边音箱线未接好 	<ol style="list-style-type: none"> 1. 接好信号输入线 2. 接好音箱线
声音伴有很大交流声(嗡嗡声)	<ol style="list-style-type: none"> 1. 信号线接触不良或插得不够深入 2. 信号线不良 	<ol style="list-style-type: none"> 1. 插紧信号线或用力把插头插入 2. 更换信号线
遥控器失灵	<ol style="list-style-type: none"> 1. 遥控器没有对准功放机遥控接收器 2. 遥控器距离功放机太远 3. 有物体阻挡在遥控器与功放机之间 4. 遥控器中的电池耗尽 	<ol style="list-style-type: none"> 1. 将遥控器指向功放机 2. 在7米之内使用遥控器 3. 将阻挡物体拿走 4. 换上新电池

- 1.频率响应 : 20Hz-20kHz±0.5 dB
- 2.额定输出功率 : 150W+150W(8Ω)
- 3.甲类输出功率 : 10W+10W(8Ω)
- 4.谐波失真 : ≤0.1%(1kHz 1W)
- 5.输入灵敏度 : 200 mV
- 6.信噪比 : 90 dB(宽带)
- 7.输入阻抗 : 47 KΩ
- 8.体积(W×H×D) : 430×180×456(mm)
- 9.重量 : 18.5 kg

数码技术参数:

- 1.光纤支持音频规格:最高支持24bit/192k格式播放。
- 2.蓝牙(5.0)支持音频格式:MP3、WAV、WMA、FAC等。

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 如有对本说明书不解之处, 请向零售商咨询, 或直接向本公司查询。
 本产品的执行标准 :GB8898、 Q/SHYA01-1997

GRATITUDE

Thank you for purchasing Hi-Fi products of Shengya Audio!

We believe that the unremitting pursuit of high-quality audio products is our responsibility and your ideal.

In order to make **A28(Integrated Stereo Amplifier)** better performance and bring you greater pleasure, we recommend that you read this manual carefully before connecting and operating the system.

SAFETY WARNING



Warning: In order to prevent fire or electric shock, please do not expose the machine to rain or humid environment. There are dangerous high-voltage accessories in the machine, so do not open the machine cover and only entrust it to qualified maintenance personnel.



Dangerous voltage: In order to reduce the risk of electric shock, please do not remove the cover (or rear panel) without authorization.



Note: There are no user-overhauled parts inside the device. When overhauling is required, please entrust the dealer or qualified personnel.

The equipment is only suitable for safe use in tropical climates, with a maximum operating temperature of 45°C;
 The equipment is only suitable for safe use in areas with an altitude of 5000m and below;
 The equipment uses an appliance coupler as a disconnect device.

A28 is an upgraded product improved from the original A17CSII power amplifier, equipped with digital signal input functions such as coaxial, optical fiber, and Bluetooth.

The audio signal amplifying circuit in the machine uses fever grade electronic tubes, which has a warmer sound, better analysis.

The use of vacuum tube, field-effect transistor and integrated circuit hybrid precision high-voltage stabilized power supply, not only has the sound performance, but also has high voltage stability and low AC ripple coefficient. The benefits of timbre are even more significant.

The voltage gain stage of the transistor power amplifier part is a common source and common base amplifier mode composed of field effect tubes; the class A current amplifier adopts Toshiba brand power tubes, and the sound performance is thicker and warmer; the output power is 150W (8Ω)×2 specifications, so The sound density and large dynamic performance are more excellent, and it can easily drive a variety of advanced brand speakers.

The tube circuit cross-connect and de-cross-connect capacitors are German WIMA brand MKP series high-end audio special capacitors. The filter capacitor used in the transistor power amplifier power supply is the Japanese ELNA brand FORAUDIO series 10000uf/50v specification, which play an important role in improving the sound quality and tone of the whole machine.

The internal audio signal connection wire apply American Kimber Kable, so that the audio signal can be transmitted more ideally.

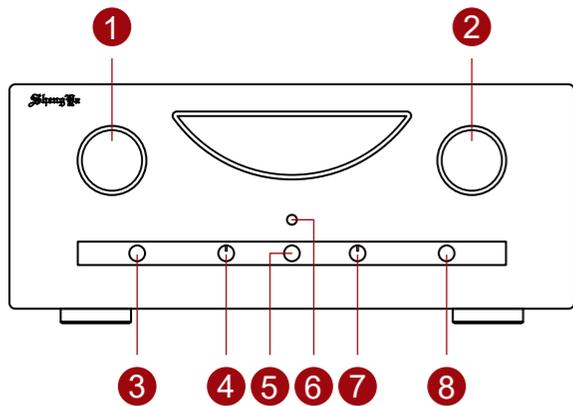
The signal input and output lines used in the machine are all single crystal copper high-grade audio signal lines, which makes the sound performance better.

The volume controller is a large-scale potentiometer made in Japan ALPS; it is reliable and durable, low noise, no sound staining, and small channel error

The output terminal adopts large gold-plated terminal, which can be easily connected with any speaker wire, and can also adopt two-wire split-tone connection, so that high and low audio currents can be ideally transmitted.

The aluminum alloy multi-function infrared remote control makes the operation feel better and more fashionable.

FRONT PANEL FUNCTION



1 INPUT

This knob is for input selection of six different audio signals.
(The indicator lights around the selected audio signal knob will light up accordingly)

2 VOLUME

This knob is used as a volume control; when it is turned to the right, the volume increases, and when it is turned to the left, the volume decreases.
(The red indicator light is for delay or internal protection status indication)

3 POWER

This button is used to turn on or off the AC power supply of the whole machine.

4 TREBLE

This knob is used to control the size of the treble tone; it increases when it is turned to the right, and decreases when it is turned to the left.

5 TONE

When this switch is pressed, the audio signal is controlled by the tone, which can be adjusted for high and low sounds. When reset, it is not controlled by the tone, and the original sound quality is at this time.

6 REMOTE CONTROL RECEIVER

Receive the infrared remote control command signal sent by the remote control.

7 BASS

This knob is used to control the size of the bass tone; it increases when it is turned to the right, and decreases when it is turned to the left.

8 LOUD

When listening at a low volume, press this button to compensate for the loudness of high and low sounds, but when the volume is turned to more than half, the effect gradually decreases.

BACK PANEL FUNCTION

1 BLUETOOTH RECEIVER

Used for wireless signal connection between digital devices.

Operation example:

1. After the power of the audio combination is turned on, the Bluetooth enters the waiting state for pairing.
2. Enter the phone settings, turn on the phone's Bluetooth function, scan to find the device; the phone will find the word "ShengYa", operate the phone to connect with it (you don't need to enter a password to connect).
3. After connecting, turn on the mobile music player, press the play button, and the sound will be broadcast on the speaker on the audio combiner.

Notice:

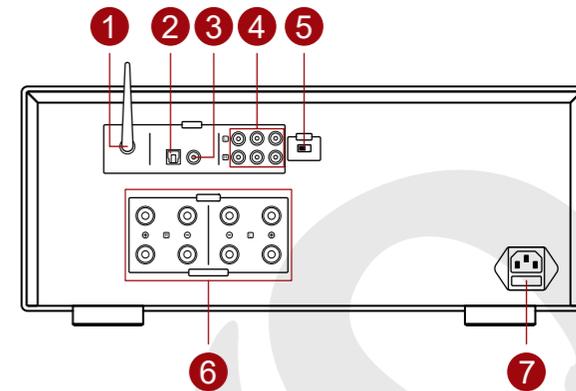
1. If the Bluetooth of the mobile phone has not been turned off, and the Bluetooth of the speaker is in a state of pairing, when the speaker combination is turned off, the next time it is turned on, the Bluetooth will enter the reconnecting state; after 10 seconds, it will enter the waiting for pairing state.
2. After the Bluetooth of the audio combination device and the mobile phone is out of the receiving distance or disconnected, if it returns to the normal distance within 60 seconds, the Bluetooth can automatically connect back to the connection, otherwise the Bluetooth of the audio combination enters the waiting state for pairing.
3. After the speaker combination is connected with Bluetooth, it is necessary to turn off the Bluetooth function of the current phone before connecting with the Bluetooth of another mobile phone, and then operate the Bluetooth search of another mobile phone to connect.
4. The speaker combination Bluetooth can be connected with bluetooth products of digital products such as laptops, mobile phones, IPDA and other digital products.

2 OPTICAL DIGITAL INPUT TERMINAL

This terminal is used as an optical interface for connecting digital equipment. (Computer/digital game console/CD/DVD player/HD TV set-top box)

3 COAXIAL DIGITAL INPUT TERMINAL

This terminal is used as an optical interface for connecting digital equipment. (Computer/digital game console/CD/DVD player/HD TV set-top box)



4 LINE AUDIO INPUT TERMINAL

This terminal is used to connect the output terminal of the audio source. (Such as audio equipment, computers, mobile phones, MP3, etc.)

5 DECORATION LIGHT CONTROL SWITCH

This switch is used to control the backlight in the window

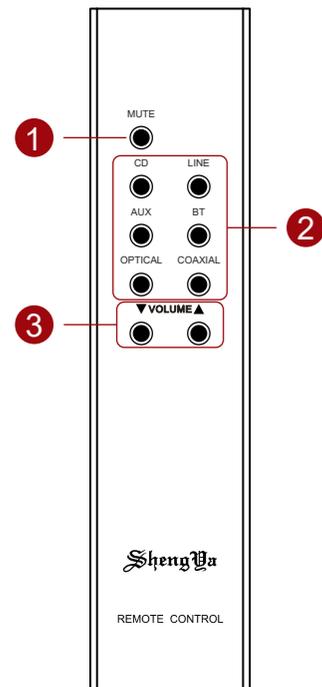
6 RIGHT/LEFT CHANNEL OUTPUT TERMINAL

It can be connected to speakers with an impedance of 4-8Ω; the red is the positive pole and the white is the negative pole.

7 POWER SOCKET WITH AC POWER FUSE

This power socket is used to connect to AC power. The fuse is at the bottom of the power socket. When replacing the fuse, be sure to pull out the power cord to replace it.

Function Description



1 MUTE

Press this key once to stop the signal output; press this key again to resume signal output.

2 CD, LINE, AUX, BT, OPTICAL, COAXIAL

Signal input selection button:
They are CD, LINE, AUX, Bluetooth, optical, and coaxial signal input.

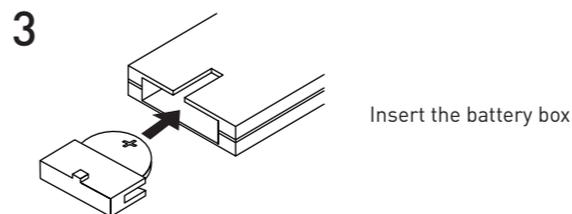
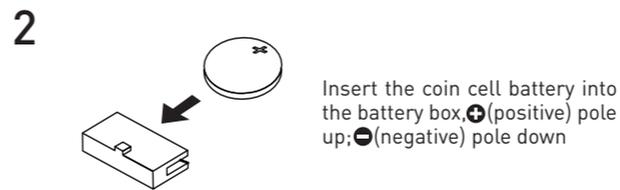
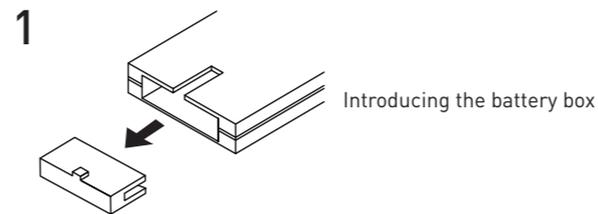
3 ▲VOLUME▼

Press this key to control the volume; "▲" to increase the volume, and "▼" to decrease the volume.

NOTE:

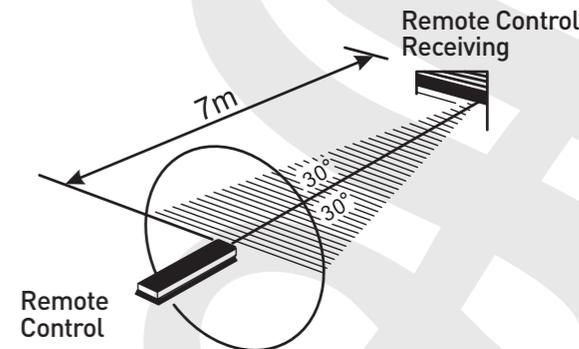
1. The remote control should not be near overheated or humid places, and should not be exposed to direct sunlight or strong light.
2. Do not subject the remote control to strong collisions or fall from a high place, otherwise it will damage the remote control and make it impossible normal work.
3. Please use CR2032 button batteries; do not mix new and old button batteries or different types of button batteries.
4. When the remote control is not used for a long time, please take out the battery and do not throw the battery into the fire.
5. Under normal use, replace the battery every 6 months.

Preparation



Use Operation

- The effective distance of the remote control is about 7 meters.
- The receiving angle of the remote control is within 30 degrees.
- Do not place the remote control sensor of the machine under direct sunlight or strong light; this will cause the remote control to fail to operate.



SYSTEM CONNECTION

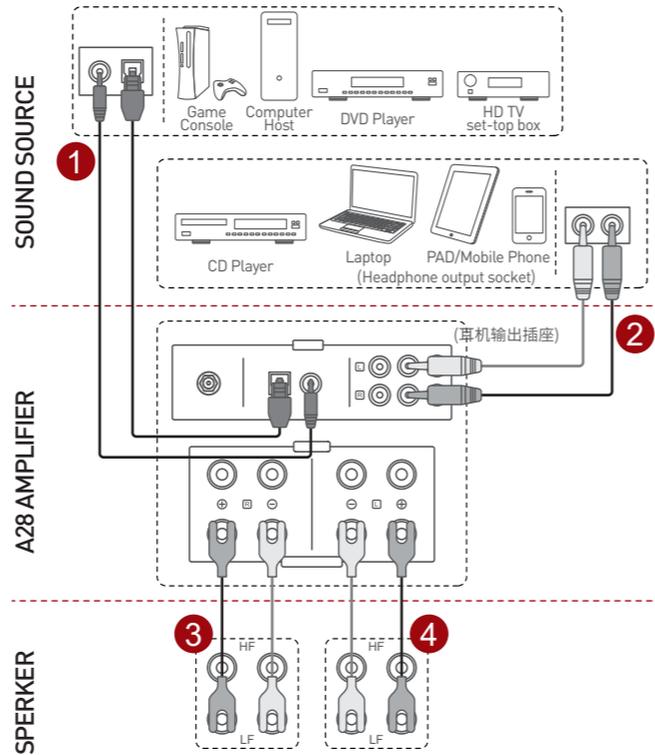
1 Connect the optical / coaxial terminal of the digital device (game console / computer host / DVD player / HD TV set-top box, etc.) to the optical/coaxial input terminal of the power amplifier correspondingly.

2 The RCA audio output terminal of the signal source (CD player/Laptop/PAD/mobile phone) is connected to the left and right channel RCA input terminals correspondingly.

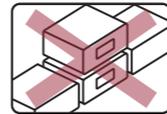
3 The right channel output binding post connects to the right channel speaker.
(Common connection or two-wire split-tone connection can be used; as shown in the figure,common connection)

4 The left channel output binding post connects to the left channel speaker.
(Common connection or two-wire split-tone connection can be used; as shown in the figure,common connection)

NOTE:
Red is positive and white is negative. When connecting the speaker and the output terminal, please correspond to the same polarity, otherwise it will affect the listening effect.



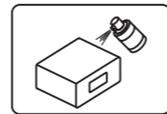
PRECAUTIONS



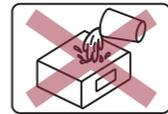
■ Please place the machine in a well-ventilated and dry place for work. Do not place it in direct sunlight or close to a heat source; and pay attention to a certain space around the counter supporting the machine, without any obstacles within 10cm; to allow the machine to ventilate and dissipate heat.



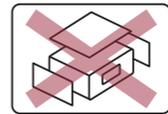
■ When using the power supply, insert or unplug the power socket by holding the insulated part of the plug, and do not pull the power cord directly.



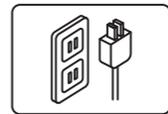
■ When cleaning the cabinet, do not use strong volatile organic solvents (such as gasoline, benzene, etc.) to clean the cabinet on the surface of the machine. Use a soft, clean cloth to wipe gently.



■ Do not place containers with liquids (such as vases, water cups, oil bottles, etc.) on the machine, and do not spill any type of liquid into the machine, which may cause short circuits or electric leakage accidents.



■ Do not disassemble the casing and try to get the internal components, otherwise there will be a risk of electric shock.



■ Please unplug the power cord from the socket when you are not using the machine for a long time.

ABNORMAL	REASON	SOLUTION
Mute	<ol style="list-style-type: none"> 1. The power cord is not connected properly 2. AC fuse blown 3. The volume knob is in the minimum position 4. The input signal line is not connected properly 5. The sound source is not working or the sound source is bad 6. Speaker connection is not connected 7. The machine is overloaded 8. Internal DC fuse breaker 	<ol style="list-style-type: none"> 1. Connect the power cord 2. Ask qualified maintenance personnel to replace the fuse 3. Adjust the volume to the appropriate position 4. Connect the input signal line 5. Turn on the audio source or change to another audio source 6. Connect the speaker cable 7. Replace speakers with 4-8Ω impedance 8. Ask qualified maintenance personnel to replace the fuse
One side channel is voiceless	<ol style="list-style-type: none"> 1. One side of the signal line is not connected 2. One speaker cable is not connected properly 	<ol style="list-style-type: none"> 1. Connect the signal line 2. Connect the speaker cable
The sound is accompanied by a loud humming	<ol style="list-style-type: none"> 1. The signal line is in poor contact or not inserted deep enough 2. Bad signal line 	<ol style="list-style-type: none"> 1. Tighten the signal cable or force the plug into 2. Replace the signal line
Remote control malfunction	<ol style="list-style-type: none"> 1. The remote control is not pointed at the remote control receiver of the amplifier 2. The remote control is too far away from the amplifier 3. There is an object blocking between the remote control and the amplifier 4. The battery in the remote control is exhausted 	<ol style="list-style-type: none"> 1. Point the remote control at the amplifier 2. Use the remote control within 7 meters 3. Remove obstructing objects 4. Replace with new batteries

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|---|--|
| 1. Frequency Response : 20Hz-20kHz±0.5 dB | 6. Signal To Noise Ratio : 90 dB(wideband) |
| 2. Output Power : 150W+150W(8Ω) | 7. Input Impedance : 47 KΩ |
| 3. Class A Output Power : 10W+10W(8Ω) | 8. Dimensions(W×H×D) : 430×180×456(mm) |
| 4. Harmonic Distortion : ≤0.1%(1kHz 1W) | 9. Weight : 18.5 kg |
| 5. Input Sensitivity : 200 mV | |

Digital Technical Parameters:

1. Optical fiber supports audio specifications: up to 24bit/192k format playback.
2. Bluetooth(5.0) supports audio formats: MP3, WAV, WMA, FAC, etc.

The company's product maintenance and repair entrust the local distributor to be responsible for contacting and contacting. Our company's products pursue continuous improvement and update, product specifications and indicators are subject to change without notice. If you have any questions about this manual, please consult the retailer or directly contact our company. Implementation standards of this product:GB8898、Q/SHYA01-1997