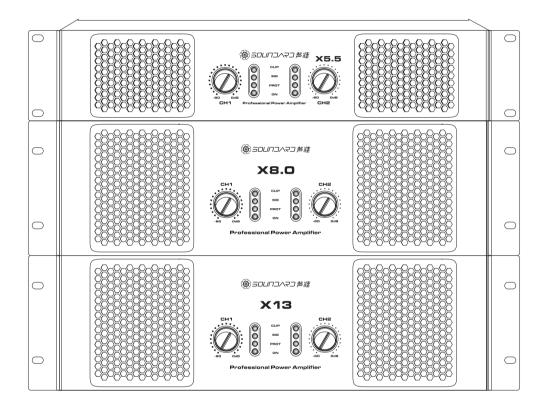




X Series



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功放产品使用重要安全事项:

- 1. 阅读这些规定,注意所有警告,遵守这些规定,否则产品将会被损坏。
- 2. 勿将产品靠近水源放置或安装,避免任何形式接触到液体,如:严禁在产品周围喷洒液体、勿在产品上方摆放液体容器。
- 3. 勿将产品靠近热源、火源放置或安装,设法保证产品使用环境温度在摄氏35度以下。
- 4. 勿将产品安装在狭小、密闭、空气无法正常对流或对流量较少的空间,避免形成热风循环。
- 5. 产品在接通电源前,应先检查产品外观完整并无机箱变形、损坏、丝印模糊不清等,并确保做了有效的接地保护措施后方可通电。
- 6. 请保护好电源线及插头,避免踩踏、挤压导致变形及磨损。定期检查,须确保电源线是在合格状态下使用。■
- 7. 🛕 严重警告:电源插头、设备耦合器作为电路切断装置,须保持其稳定的保护运行状态。
- 8. 须按以下开关次序来使用功放产品:

打开: 先启动前级设备--再启动功放产品;

关闭: 先关闭功放产品--再关闭前级设备。

- 9. 关注产品上标识的额定电压,产品接电前必须确保接入供电电压符合该产品的要求。
- 10.若输入信号并接超过三台产品时,建议使用信号分配器,可避免输入信号产生失真。
- 11. 勿将产品的某一个声道的输出接口接到另一个通道的输入接口。不要将功放的输出并联或串联到另一台功放的输出接口。
- 12.设计系统配置功放的时候,产品功率应比音箱在相同阻抗下的标称功率大50%-100%,须谨慎使用桥接模式。
- 13.由于输出到音箱的电流较大,建议使用符合规格的NL4型音箱螺旋座插头。
- 14.多台产品使用时,应计算好合适的配电额,确保达到合格的使用环境。
- 15.维修产品的时候,禁止在桥接状态下将示波器的探头连接到产品的输出端,以免损坏产品和示波器。
- 16.本设备不适合儿童可能会出现的场所使用。

安全说明

输入/输出接驳 置于功放两侧	线缆不可堆叠在产品排风扇口,请 困扎好!	(2000m)	设备印有该标示则表示-本产品仅适用于 海拔2000m以下安全使用
非水平堆叠时口。	, 建议机尾排风口向上或直向排风		设备印有该标示则表示-本产品仅适用于非热带 气候条件下安全使用。
/ W \	ī/亚热带气温应<35℃。 5气温应<45℃。	Z	需经专业回收的物料,不能放置入垃圾桶。
在工程调试时边位保持在35	金证机柜内气温,在极限条件下, ℃以下。	4	小心触电,非拥有相关资质的人员请勿擅自开盖 维修。
产品应保持	妾地。		热零部件标志,该零部件需关闭电源半小时后才 能触摸。



警告 为避免着火或电击,不要将产品暴露在雨中或潮湿的环境中。

欢迎

非常感谢您购买蜚声演出器材制造有限公司产品。 X系列专业功放,操作简单、工作稳定、性价比 高,用途广泛。专为卡拉OK包房、语言扩声、小型演 出、演讲等场合使用。为了更好的发挥产品性能,请 在使用前仔细阅读本手册。

开箱

请在拆开包装后,确认功放的外观没有在运输途中遭到 损坏。确认功放的预设电压与使用地的交流电压额定值 匹配(详细信息见功放背板印刷),建议您保留包装箱, 以便在需要退还产品时使

支持与服务

请直接联系蜚声演出器材制造有限公司在当地的分销商,以获得快速的售后服务和技术支持,如有技术问题需要直接与制造商联系,可以通过以下方式:

电子邮件:support@saechina.com 传真:+86-757-8568-8191

重要的安全注意事项

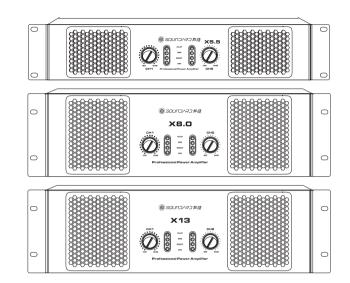
蜚声演出器材制造有限公司的产品在设计时已经考虑到安全使用的要求,并遵照相关的国家的安全规定检验出厂,只有合格的产品才能出厂销售。但由于本产品内部有危险高电压和电量,因此请用户在使用前必须认真阅读本手册的注意事项。如果产品跌落、凹入、浸湿或者机体内部有部件松动,将会大大增加人被电击的危险。当发生以上问题时,请马上切断电源,然后将本产品送还指定的经销商进行检查维修!

配线配电

参考不同型号产品的耗散功率与供电/AC进行配线 建议用户搭配不低于以下的配线径规格,以获得更佳 的综合性能。

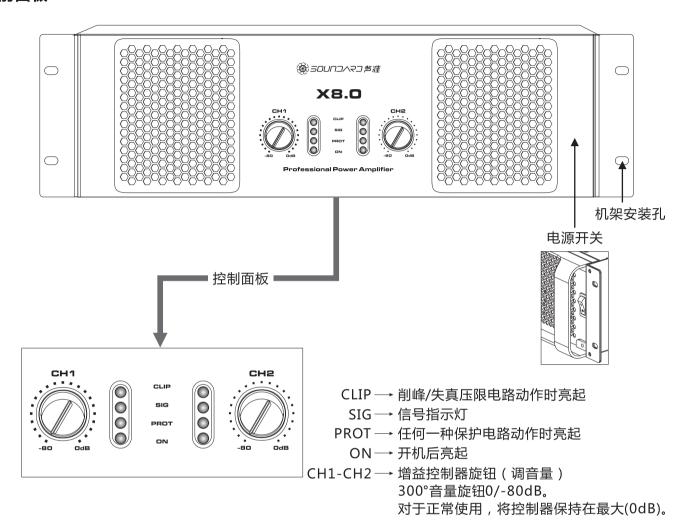
标配电压:220/240V~

型号	耗散功率	配线径规格
X5.5	1800W	≥1.5mm²
X8.0	2400W	$\geq 2.5 \text{mm}^2$
X13	3800W	≥2.5mm ²



前面板功能介绍 X系列功率放大器

前面板



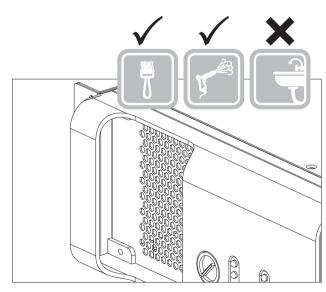
滤尘网清洁操作指引



在工程建造完成时,应对滤网进行首次清洁。 在往后的时间,应根据实际的情况,建议每季度 定期进行清洁一次。

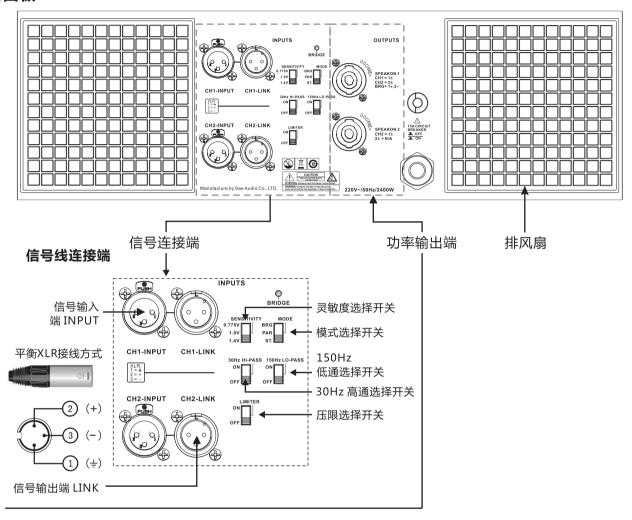
不允许拆除该滤网继续使用本产品,否则将影响 本机的使用寿命。

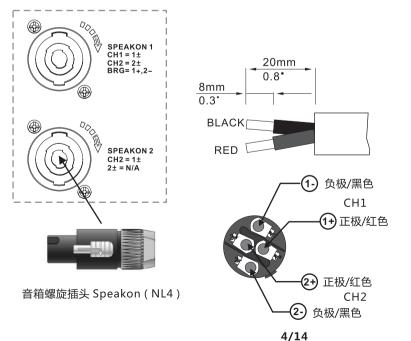
在此情况下产生的故障,将被认定为脱保!



后板功能介绍 X系列功率放大器

后面板:





音箱连接端



立体声或并接模式下可工作在2~16欧 桥接模式下可工作在4~16欧



不建议桥接4欧长期使用, 这可能导致功放使用寿命 缩短或者产生故障!



焊接质量很重要! 虚焊或是焊接错误, 将可能影响到正常使用, 甚至产生故障。 技术指标 X系列功率放大器

型 号	X5.5	X8.0	X13
功率			
8Ω立体声功率	550Wx2	800Wx2	1350Wx2
4Ω立体声功率	950Wx2	1280Wx2	2030Wx2
2Ω立体声功率	1300Wx2	1700Wx2	2700Wx2
8Ω桥接功率	1900W	2550W	4050W
4Ω桥接功率	2800W	3400W	5400W
其他参数			
频率响应	20Hz-20KHz(+0/-0.5dB)		
总谐波失真	≤0.2%	≤0.05%	≤0.05%
信噪比	≥80dB	≥80dB	≥80dB
输入灵敏度	0.775/1.0V/1.4V		
输入阻抗(平衡/不平衡)	20kΩ/10kΩ		
输入阻抗(平衡/不平衡) 电压增益	20kΩ/10kΩ 38.4dB	40.5dB	42.5dB
		40.5dB Class 3H	42.5dB Class 3H

软启动、直流、短路、过载、超温、削峰/失真压限、开机音量渐大

连接器

保护功能

输入部分 平衡输入XLR母插座/平衡并接XLR公插座

输出部分 SPEAKON (音箱螺旋座)

使用功能

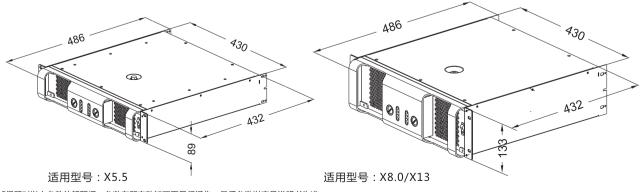
面板功能 电源开关/音量控制旋钮/电源指示/信号指示/ 削峰压限指示/保护指示

产品尺寸

产品外形尺寸(Wx Lx H) (mm) 483x486x89 483x486x133 483x486x133 外包装尺寸(Wx Lx H) (mm) 620x585x170 620x585x210 620x585x210

注意:以上功率是按照EIA标准测量得出.

机箱尺寸 (mm)



SAE保留对以上参数的解释权,参数有所变动恕不再另行通告,最后参数以产品说明书为准。

通电后,无任何反应

马上用万用表测量插座是否有电,在没有万用表时可用试电笔,但必须灯泡显示明亮,否则可怀疑电压不正常。若插座电压正常,供电无怀疑后,通电的功放仍然无任何反应,则可判断该功放有故障,需要专业人员进行进一步故障判断。

功放无声音输出

1、首先判断输入的信号是否正确

▲ 卡侬XLR的2/3脚有无反接的可能,地屏蔽线是否连接可靠。跟据输入线路的设计不同,可能在以上有些产品会表现正常,而有些则无声,请必须按照2+、3-的方式连接。不可以采用比对其他功放(包括同厂产品)的方式判断。

2、面板指示信号灯不亮

排除信号线问题后,若功放无输入信号反映,可判断功放本身可能存在故障,需专业人员进行进一步故障判断。

3、输入信号正常但仍无声

功放输出声音失直

1、失真表现为小声音已经很明显能听出声音有破裂声在排除信号本身和音箱的问题后,可判断为该功放可能存在故障。需专业人员进行进一步故障判断。

2、某个频段失真

首先判断音箱本身是否能承受该功放的输出功率,一般在95~105分贝时判断,再大的音量输出不作评论。本篇幅只讨论功放自身问题的排除。若是在中频段声音有轻微破裂尾音,并且在音量越小时表现为越明显,可判断为功放可能有交越失真,此失真声音比较容易和音箱本身高频激励器故障混淆,请做出判断前最好再连接其它判断为正常性能的音箱比较测试一下。

3、大声压时失真

在小声压时表现正常的情况下,首先判断音箱对所播放音乐信号的大动态时的承受能力。请在合适的音量下聆听判断,若功放削峰指示灯(CLIP)时常亮起,请再降低音量后判断。音箱和功放都有适用的范围,请在所能接受的范围内使用,在超大音量下失真则可能功放及音箱都已经进入饱和状况,请适当降低音量使用。

功放保护指示灯(PROT)点亮

此指示灯点亮表明功放进入保护状态。形势不妙!
1、可能是温度过高、有高于4K的连续正弦波输出超过
1秒、输出短路或接近短路等。以上情况可恢复的。并非故障。等恢复后可继续使用。但过热会等待较长时间才可恢复。并且出现过热时就必须检查产品的风扇是否运作正常,空间温度是否过高等,须排除问题后才可继续运作。若怀疑音箱短路,可以用万用表测量音箱线两端直流电阻是否低于2欧甚至1欧。(因电阻较小,为保证测试精度,请校准万用表后再测量)

2、此灯常亮,不可恢复

此类情况一般为功放本身故障导致,请联系维修人员跟进。

有交流声(哼声或称之为电流声)

1、功放不插入任何信号就有交流声 请将功放搬离于系统电源地线隔离的位置继续测试,只 连接火零N/L,不连接地线。若输出还是有交流声,可判断 为产品本身有问题,请与维修人员联系。

2、连接系统后有交流声

此现象为系统各单元设备的地电位不同而产生的。多数出现在供电为三相电时,各设备连接不同的相线,甚至不同上庄电源,零线带电导致,并非功放故障。

解决办法超出本说明书叙述范围,这里附赠解决经验, 仅供参考,本厂不对此叙述负责!

A、梳理用电,尽可能使用同一配电箱的电源。

B、在必须接地的情况下,将不同的接地点强迫接为一点,在此动作前,请判断地线电位必须为零,若地线本身带电,则表明地线可能与零线相连。请先解决此问题。C、我们不建议浮地使用设备。

以下情况表示放大器需要维修

- 1.产品冒烟或者发出严重烧焦味而不能使用时
- 2.机箱严重凹陷或者变形
- 3.产品浸入液体中
- 4.内部部件松动
- 5.加电时交流断路器自动跳开或保险管熔断

免责声明

蜚声演出器材制造有限公司对于因不当使用本产品而导致扬声器或其它设备损坏不承担任何责任! 蜚声演出器材制造有限公司对本产品提供2年有限质量保证。蜚声演出器材制造有限公司保证其产品自销售之日起2年内不会发生材料和制造工艺缺陷;若在正常安装和使用条件下发生的损坏,蜚声演出器材制造有限公司将按照质保协议无偿更换有缺陷的零件和维修故障产品。但客户必须将产品送回我们的工厂或授权的维修点或指定经销商处,同时必须预付运费和附带购买证明(产品保修卡客户联及销售收据或发票复印件)。

此质保协议规定,退回的产品必须经过我们检查判断存在质量缺陷。本质保不适应于任何误用、疏忽、 意外、不正确安装而导致损坏的产品或日期编码、序列号被去掉或破损致不能辨认的产品。蜚声演出器 材制造有限公司不对意外或间接发生的损害承担责任。此质保赋予您特定的法律权利。

通讯地址:

蜚声演出器材制造有限公司售后服务部

中华人民共和国,广东省,佛山市,南海区,和顺,文教路东段39号,蜚声工业园。

邮政编码: 电话: 传真:

528241 0757-8560-8331 0757-8568-8191

电子邮件: 品牌网址: 制造商网址:

support@saechina.com www.soundard.com www.saeaudio.com

产品物质拆分表

为满足中国《电子信息产品污染控制管理办法》(信息产业部第39号令)的相关规定和要求,现对产品中有害物质,按部件分类, 声明如下:

÷₽/4 /2 T/2	有毒有害物质或元素					
部件名称	铅 (Pb)	汞 (Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBED)
机箱	×	0	0	0	0	0
主板模块	×	0	0	0	×	×
电源模块	×	0	0	0	×	×
I/O板模块	×	0	0	0	×	×
控制模块	×	0	0	0	×	×
灯板	×	0	0	0	×	×

备注:

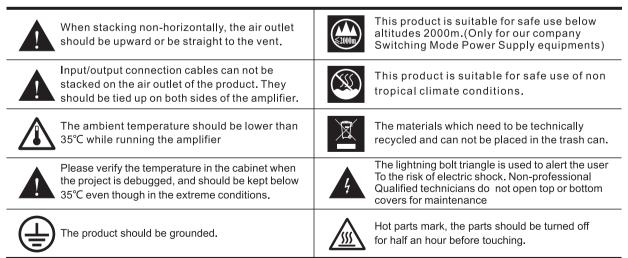
- ○:表示该有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006规定的限量要求下
- ×:表示该有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006规定的限量 要求。

在中华人民共和国境内销售的电子信息产品上将贴上有"环保使用期限"(EPuP)符号。 圆圈中的数字代表产品的正常环保使用年限。

Important safety matters for power amplifier products:

- 1. Read these regulations, pay attention to all warnings, follow these regulations, otherwise the product will be damaged.
- 2. Do not place or install the product near the water source and avoid contact with liquid in any form. For example, do not spray liquid around the product or place liquid containers above the product.
- 3. Do not place or install the product near the heat source or fire source, and try to ensure that the ambient temperature of the product is below 35 degrees Celsius.
- 4. Do not install the product in small, closed, air can not be normal convection or less flow space, to avoid the formation of hot air circulation.
- 5. Before powering on the product, check that the appearance of the product is complete and that there is no distortion, damage, or blurred silkscreen. Ensure that effective grounding protection measures are taken before powering on the product.
- 6. Protect the power cable and plug to avoid deformation and wear caused by trampling or squeezing. Check regularly to ensure that the power cable is in proper condition for use.
- 7. A Serious warning: Power plugs and device couplers are circuit cutting devices and must be kept in stable and protected running state.
- ${\bf 8. \ \ Power\ amplifier\ products\ shall\ be\ used\ in\ the\ following\ switching\ sequence:}$
 - Open: start the previous equipment first -- then start the power amplifier product;
 - Shut down: First shut down the power amplifier product then shut down the preceding equipment.
- Pay attention to the rated voltage marked on the product. Before powering on the product, ensure that the power supply voltage meets the requirements of the product.
- 10. If the input signal and connected to more than three products, it is recommended to use the signal distributor, can avoid the input signal distortion.
- 11. Do not connect the output interface of one channel of the product to the input interface of another channel. Do not connect the output of a power amplifier in parallel or in series to the output interface of another power amplifier.
- 12. When the design system is configured with power amplifier, the product power should be 50%-100% larger than the nominal power of the sound box under the same impedance, and the bridge mode should be used with caution.
- 13. Due to the high output current to the speaker, it is recommended to use the screw socket plug of type NI4 speaker in accordance with the specifications.
- 14. When multiple products are used, the appropriate amount of power distribution should be calculated to ensure a qualified operating environment.
- 15. When repairing the product, it is forbidden to connect the probe of the oscilloscope to the output end of the product in the bridging state, so as to avoid damage to the product and oscilloscope.
- 16. This equipment is not suitable for use in places where children may be present.

Safety instructions





WARNING: To reduce the risk of fire or electric Shock, do not expose this apparatus To rain or moisture.

Welcome

Thank you for purchasing our products. The X series professional power amplifier, simple to operate, stable, high performance-cost rate. Special design for KARAOK ROOM, sound reinforcement, small performances, lectures and other places. Please take the time to study this manual so that you can obtain the best possible service from your amplifier.

Unpacking

Please unpack and inspect your amplifier for any damage that may have occurred during transit. Confirm the preset voltage of the power amplifier matches your local voltage rating (Please refer to the print on the rear panel for detailed information). We also recommend that you save all packing materials so you will have them when need to return the power amplifier.

Important safety precautions

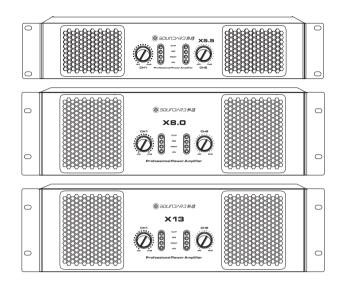
Our products has already taken the safe requirement in to consideration and all the finished products have been tested under the requirement of the government before sale. Due to the inner dangerous high voltage and electricity, we strongly recommend you read all instructions, warnings and cautions contained in this manual. It will increase the chance of getting shock by the electricity if the product falls down, recess in the appearance, soaked or there were some parts loose internal. If there are problems above, please turn off power immediately and send the defective units to local distributor for service.

Power & Wiring distribution

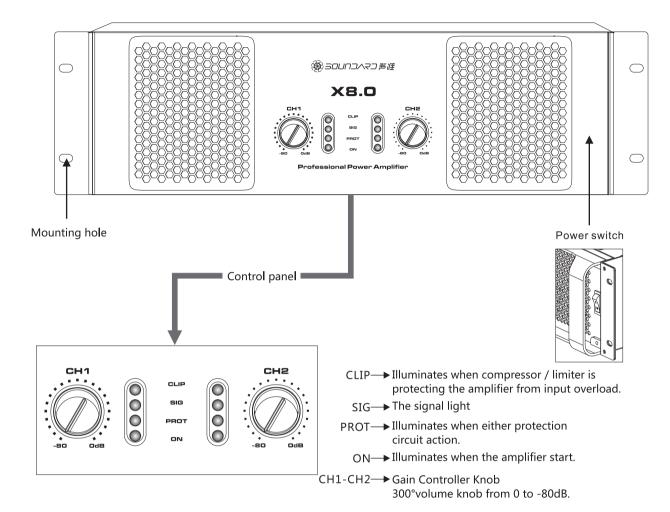
Referring to the power dissipation and power supply/AC of different product for wiring We suggest the users to match not less than the following wiring size specifications, to obtain the better comprehensive properties.

The Standard Voltage: 220V/240V ~

Model	Dissipation Power	Cable size
X5.5	1800W	≥1.5mm²
X8.0	2400W	$\geq 2.5 \text{mm}^2$
X13	3800W	≥2.5mm ²



Front Panel



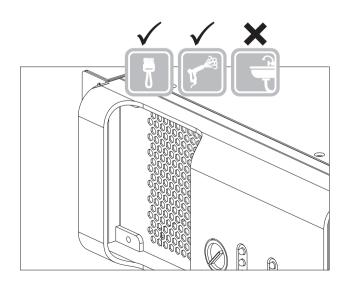
Cleaning guide of the dust filter



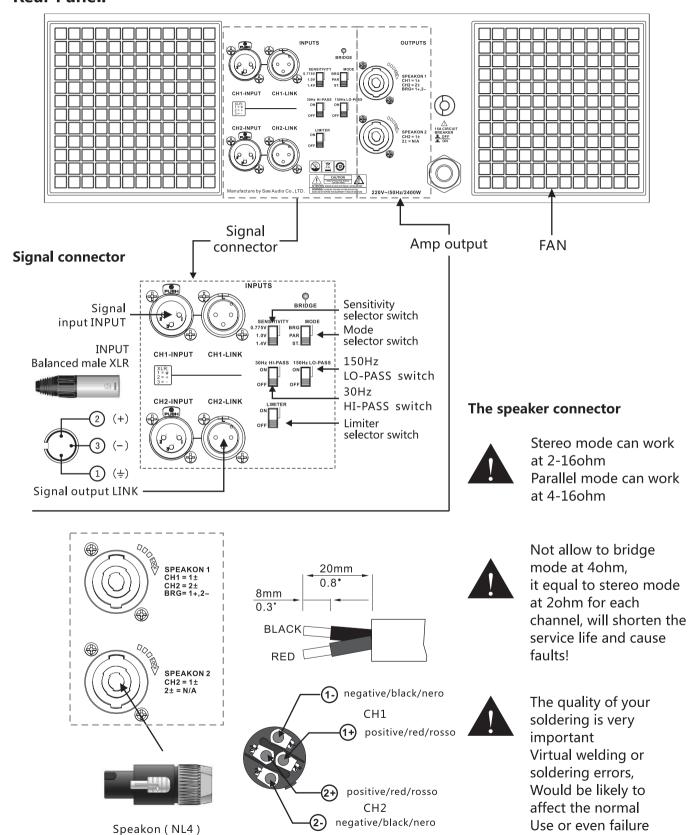
The first time cleaning of the strainer mesh should be right after installation.
Recommend to clean the strainer mesh quarterly.

Please do not run the product without the dust filter, or it makes the service life of the product shorten.

Such condition will be considered as no warranty.



Rear Panel:



Model	X5.5	X8.0	X13
Output power			
8Ω stereo	550Wx2	800Wx2	1350Wx2
4Ω stereo	950Wx2	1280Wx2	2030Wx2
2Ω stereo	1300Wx2	1700Wx2	2700Wx2
8Ω bridge	1900W	2550W	4050W
4Ω bridge	2800W	3400W	5400W
Other Specifications			
F			
Frequency response	20Hz-20KHz(+0/-0.5dB)		
THD+N	20Hz-20KHz(+0/-0.5dB) ≤0.2%	≤0.05%	≤0.05%
. , , ,	` ,	≤0.05% ≥80dB	≤0.05% ≥80dB
THD+N	≤0.2%		
THD+N S/N rate	≤0.2% ≥80dB		
THD+N S/N rate Input sensitivity	≤0.2% ≥80dB 0.775/1.0V/1.4V		

Connection

Cooling

Protection

Input Balance input XLR-F, Balance output XLR-M

Air flow from rear to front

Output NL4 SPEAKON

Function

Front panel Front panel indicator: Working indicator Signal/Clip/Protection/Power on/ volume control knob

Soft start, VHF, DC, short circuit, over load, clip limit, over heat

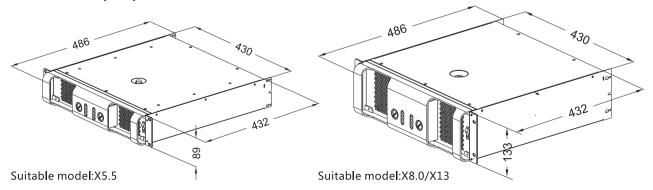
Dimensions

 Product Dimension(mm)
 483x486x89
 483x486x133
 483x486x133

 Packaging Dimension(mm)
 620x585x170
 620x585x210
 620x585x210

Remark: The power is tested under EIA standard.

Product dimension(mm)



The manufacturer reserves the rights to make changes in specification without prior notice. The final specification is subject to the user's manual.

After powered without any response

Measure the outlet with a multimeter to check if there is power available and when no multimeter, you can have a test pencil. If the power supply is normal and the amplifier still no response when powered then there is something wrong with the amplifier, need professional person to check it.

No signal output

1. Frist check if the signal input is right.

⚠ Check the connect of XLR, if the 2 and 3 reverted or the ground is reliable. Different circuitry design will have different connect way of the XLR, please follow the 2+、3- to soldering. It can not be judged by comparing with other amplifiers (including other amplifiers in the same factory).

2.The signal light don't lights up

If all the signal input is fine and the signal light don't lights up then may the amplifier has failure, you need to ask the professional person to check it.

3. Signal input normal but no sound

The signal light will flash with the change of input Volume, but now sound out, then you can check the connect of speakon if it is connect good and the wires are connect right(some times the problem of the wires connect, check its ± 1 and ± 2 connect), after the check above if still no sound out, please change a speaker cable and check again. Because some times also caused by the bad quality of the Speakon connector problem of the amplifier.

Through experiences, it may caused by the bad connection of some plugs and the socket.

Output sound distortion

1.After check the signal and loudspeaker they are fine and still can hear distortion when small sound, then may the amplifier has failure, need professional person to check it.

2. Some frequency band has distortion

First, check if the loudspeaker already overload, normally judge it in 95~105dB for higher SPL we don't comment here. Here we just think about the failure recovery of the amplifier. If in the middle have some rupture sound and more smaller volume more obvious, then it should be crossover distortion of the amplifier and this kind of distortion is easy to confuse with the failure of loudspeaker itself. If the amplifier have problem then you should send back to the manufacture for repair.

3.Distortion is High SPL

If the sound is normal when small volume and then you need to check the limit SPL of the loudspeaker. You can listen it in suitable volume and if clip light works, then you need reduce the output. Both loudspeaker and amplifier have limit, you should use them in their limit if in very high SPL they have distortion you should take care of them and reduce the output to the right position.

The protection light blinks

When the PROT light works, the amplifier into the protection mode.

1.Maybe the temperature is too high or output short or near short and they are not failure they can recovery after you can use it normally. But over heat will take more time to recovery. Also when over heat happened you should check the fan and the temperature of the install environment, if does you should solve the problem then can use amplifier. If you think the speaker was short, you can with a multimeter to check if the resist is lower than 2 ohm or 1 ohm with DC(Please calibrate the multimeter to measure for accuracy because of the small resistance).

If the PROT light always light up then it should be the problem of amplifier, you should send it back to professional person for repair.

Hum in the system

1. Hum exists even when there is no signal Please keep the amplifier away from earth wire of power supply cables, just connect the fire wire and zero wire, no ground wire. If the hum is still existing, it can be judged that there are some problems in the amplifier. Please get in touch with professionals.

2. Hum exists when the system is completely connected This is caused by the different ground voltages in difference devices in the system, mainly happens when the power supply is under three-phase distribution condition, each device is connected to different phase. This is not caused by amplifier.

Solution experiences, just for reference

- A. Combing the electricity, the power distribution box using the same one for all if possible.
- B. Make sure the grounding wire potential is zero and force the different grounding wire to the same level, if the grounding wire Itself charged, indicates that the wire may be connected with the zero line. Please solve this problem.
- C. If unavailable above, then only to disconnect the ground wires of all devices, which helps to reduce the AC. But this is not meet the safe use of electricity, users must know what will happen if to do in this way. We do not recommend the floating use.

The amplifier is required maintenance in the condition below:

- 1. If the amplifier smokes or smells burning.
- 2. If the cabinet has severe indentation and deformation
- 3. If the amplifier are dipped into the water
- 4. If the internal components loosen
- 5. If AC breaker skips out when current increases.

Disclaimer

SAE Audio Co., Ltd. is not responsible for any damage of loudspeakers or other equipments caused by negligence or improper installation.

SAE Audio Co., Ltd. offers 2 years limited warranty for this product.

SAE Audio Co., Ltd. Guarantees that this product has no material defect during two years from the sales date; if the damage caused under the normal installation and operation, SAE Audio Co., Ltd. shall change the defective component and repair faulty product for free according to this Quality Guarantee Agreement. However, users must send the product to our factory or any authorized maintenance points or designated distributors, affording the re-paid freight, together with buying proof (including customer copy of product warranty card and payment receipt or invoice copy).

As per this Quality Guarantee Agreement, the returned product must be judged having manufacturing defect it self after our inspection. This agreement doesn't apply for products with damage caused by any wrong operation negligence, accident, inappropriate installation or products with no date code and sequence no or damaged ones beyond recognition.

SAE Audio Co., Ltd. shall not afford responsibility for any damage caused by accident or indirect factors. The agreement authorized you specific legal rights.

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