

# TAKSTAR® 得胜

## ESC-15A



**有源超低音箱**  
Active Subwoofer

使用手册  
User Manual

# ESC-15A 有源超低音箱

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# ESC-15A 有源超低音箱

## ■ 前言

尊敬的用户：

感谢您选购得胜ESC-15A有源超低音箱，为了您能够更好的了解使用本产品，建议您在使用前仔细阅读本说明书。

若存在有疑问或者您有宝贵的建议，可通过拨打得胜官方服务热线400 6828 333或微信扫描二维码关注得胜官方公众号与我们联系。



## ■ 产品特性

- 高效率D类功率放大器
- 大功率15寸100芯低音单元，箱体采用6阶带通设计，具备优异的低频响应以及131dB的最大声压级
- 非常适合搭配得胜音柱产品及ELV系列音箱使用
- 预置多种方案，满足更多更高的扩声使用要求
- 全面智能保护：过热（功率限幅-过热关闭）短路/过载/削波限幅/高频保护
- 限幅器：峰值限幅器，RMS限幅器，频率偏移限制器，削波限制器，温度限制器
- 48KHz DSP和多种滤波器可带来真正高清晰度和超低延迟声音
- 通过直观的LED显示屏，可进入各种DSP功能并加载预设，或对PEQ、延迟和路由等进行精确调整
- 内置心型模式设置，可实现舞台低音管理
- 低音低沉、丰满、有力，具有极强的震撼力
- 外置低音和全频并联输出接口，可支持四通道音箱输出

## ■ 适用范围

用于音乐餐吧、慢摇吧、小型演出、豪华KTV并结合全频音箱使用

## ■ 包装清单

ESC-15A有源超低音箱	1台
电源线	1条
说明书	1份
转接头	1个
脚轮	4个

注：可选配ST-9支撑杆使用

## ■ 技术参数

### 扬声器参数

音箱类型：15寸有源超低音，带通式

最大声压级（峰值）：131dB

频率响应（-10dB）：40Hz-150Hz

单元部分：大功率15"锥形低音单元，100芯音圈

输出功率：动态：1600W（AES）/持续：800W（AES）

### 功放参数

输入灵敏度@8Ω：≤2.2V/+9dBu@32Db gain

信噪比：≥115dB(A计权)

功放功率：2×1000W @8Ω，2×1500W @4Ω

I/O接口：输入INPUT,输出LINK

处理器：一进两出

接线方式：低音1×NL4speakon (1+, 1-) +全频2×NL4speakon (2+, 2-)

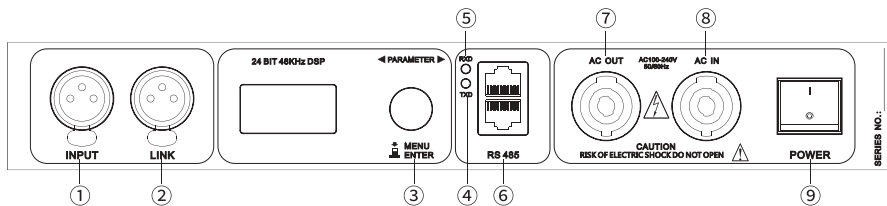
电源：AC 100V~240V，50Hz/60Hz

重量：约45.3kg（净重）

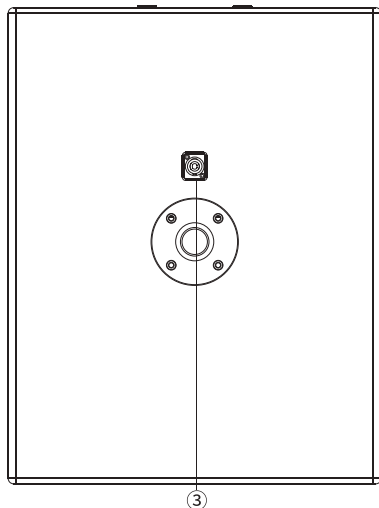
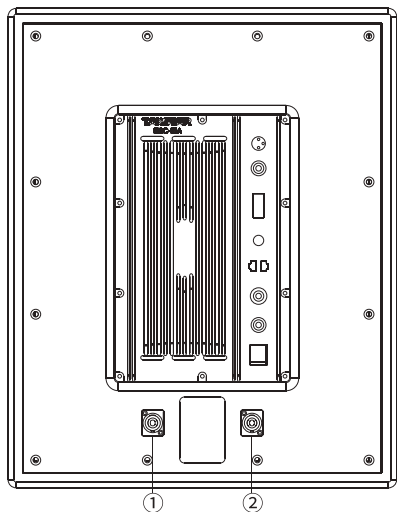
外形尺寸（mm）：470×600×598（W×D×H）

注：以上数据由得胜实验室测试得到，并拥有最终解释权！

## ■ 面板功能介绍



- ① INPUT: 信号输入
- ② LINK: 信号输出
- ③ MENU ENTER: 菜单进入
- ④ TXD绿灯: 发射指示
- ⑤ RXD红灯: 接收指示
- ⑥ RS 485: 网络连接口
- ⑦ AC OUT: 电源输出
- ⑧ AC IN: 电源输入
- ⑨ POWER: 电源开关



- ①预留的低音并联输出接口 (1+, 1-)
- ②③并联的全频输出接口 (2+, 2-)

## ■ 操作功能步骤

### 1. 标准画面

Volume 0dB  
1.ESC-15A FRONT  
ID 02  
Temp 26.5°C

音量，有音频输出时显示喇叭符号  
正在使用的预设编号和名称  
设备的ID  
设备的温度

Remote  
Mute  
Idle

联机控制时将显示“Remote”，此时将不能进行其它设置。  
电脑软件控制静音时将显示“Mute”。  
进入休眠状态时，将显示“Idle”，按下旋钮即进入“音量调整”。

---

### 2. 音量调整

Volume  
  
0dB

顺时针旋转旋钮时音量增加，逆时针旋转旋钮时音量减小。  
调整范围0——-40dB，步进1dB。按下旋钮时存储音量，  
并进入“调用预设”。

---

### 3. 调用预设

Preset  
  
1.ESC-15A FRONT

旋转旋钮，选择将要调用的预设。  
按下旋钮时，调用选择的预设（如有选择新的预设），  
并进入“ID调整”。

---

### 4. ID调整

RemoteControl ID  
  
02

旋转旋钮，调整ID。多个模块同时连接到电脑时，必须设置  
成不一样的ID。按下旋钮时，存储ID并进入“待机模式选择”。

---

## 5. 待机模式选择

Idle Mode 0  
Closed  
Output Stage

旋转旋钮，选择待机模式。

模式0：关闭功放输出级

Idle Mode 1  
Closed  
Output Stage  
And Power

模式1：关闭功放输出级和主电源。

3004不支持此模式1，选择模式1后可能会一直重复启动。

按下旋钮时，存储待机模式并进入“待机时间选择”。

---

## 6. 待机时间选择

Idle timeout  
  
00 Minute

旋转旋钮，调整待机时间。

在待机时间内一直未检测到输入信号时，将会进入休眠状态。

待机时间范围0 到30分钟。

设置成0时将不进入休眠状态，功放将一直工作。

按下旋钮时存储待机时间，并进入“标准画面”。

---

## 7. 其它状态

Remote  
Mute  
Idle

联机控制时将显示“Remote”，此时将不能进行其它设置。

电脑软件控制静音时将显示“Mute”。

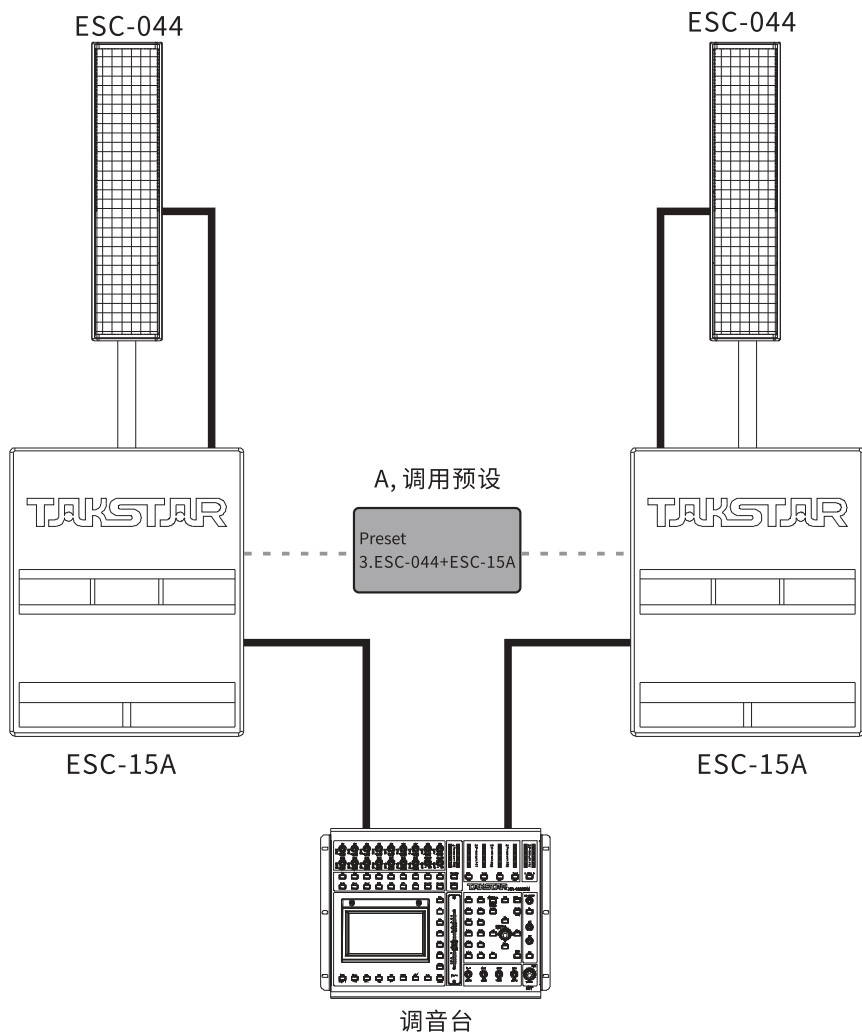
进入休眠状态时，将显示“Idle”

有上面三种状态时将不会显示标准画面

## ■ 模拟连接的基本设置

系统示例1:

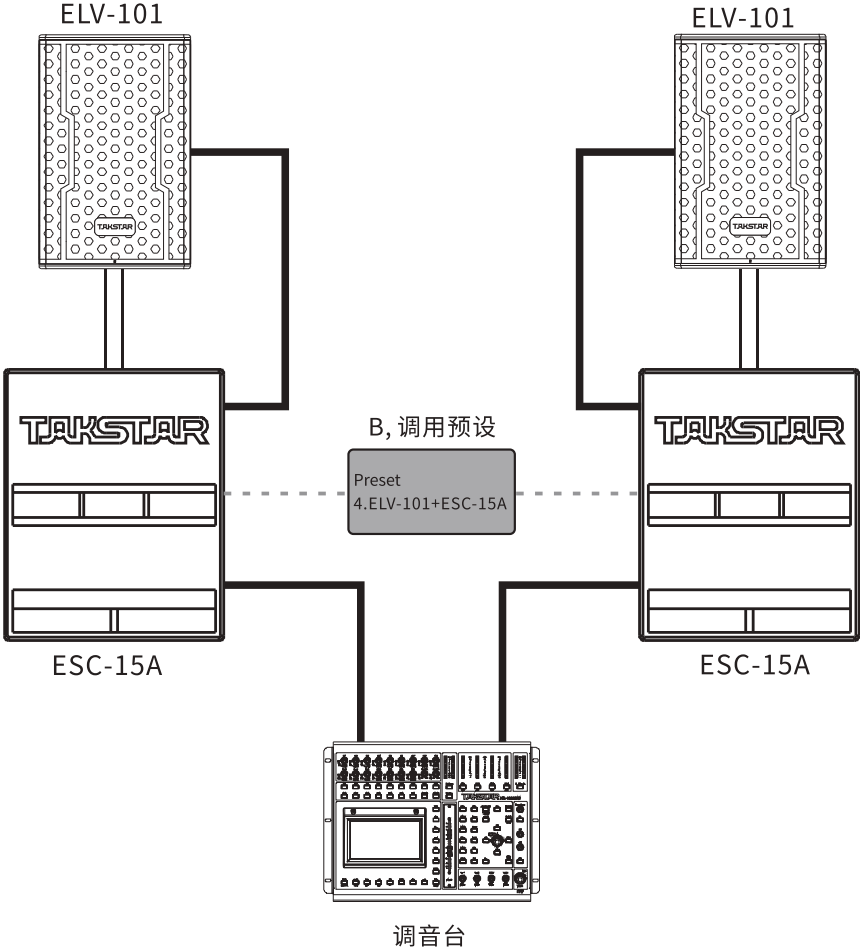
本例使用ESC-15A和ESC-044音箱



# ESC-15A 有源超低音箱

系统示例2:

本例使用ELV-101和ESC-15A音箱



# ESC-15A 有源超低音箱

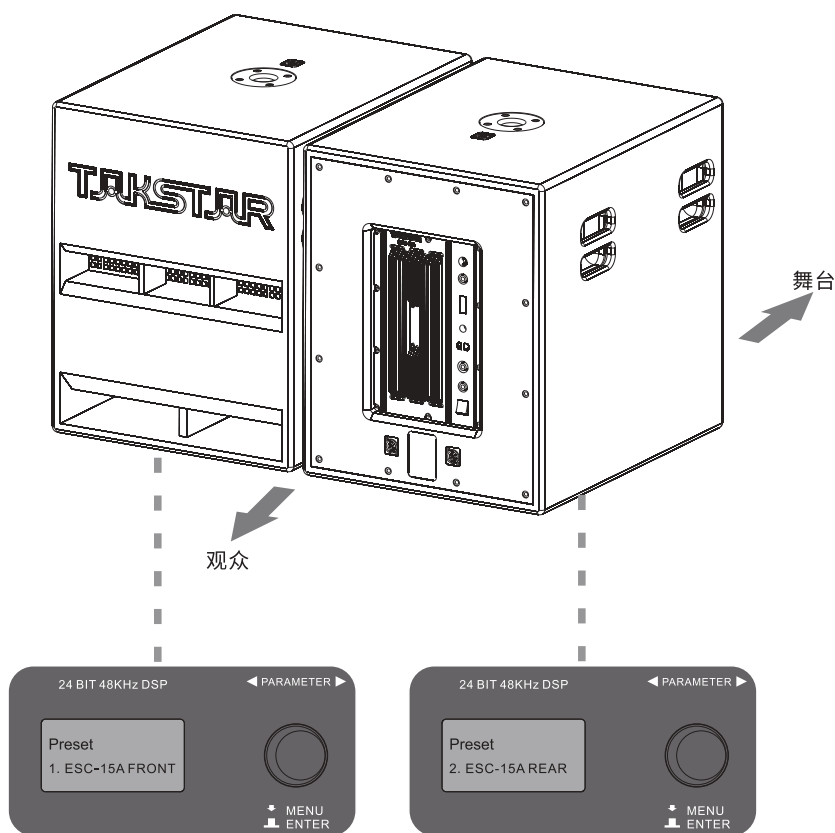
## ■ 心型模式设置

心型模式设定可以增加对于两个或以上的ESC-15A音箱组成的低音阵列的额外低频控制，它可以有效降低舞台端的低音声压级，并将这些低音更多地传送到听众位置

注：

- 1.使用相同的ESC-15A型号产品和相同的输入信号。
- 2.为了最大化心型特性，请将音箱放置在距离墙壁至少1.2米的地方。

排列示意——两台音箱并排



## ■ 故障排除

故障现象	故障原因	解决办法
无声	未接电源或未开电源开关	接通电源，打开电源开关
	音量旋钮在最小位置	调大音量
	没有低频信号输入	检查系统接线及设备的设置
低音失真	超低音功放输出已达到极限	调小超低音或系统总音量
	超低音功放频率范围太宽	调窄频率范围
大动态时失真或有异常声音	动态过大的声音（如爆炸声）使超重低音音箱过载	适当调小超低音音箱或家庭影院设备的总音量
有嗡嗡声或交流声	连接问题或系统接地问题	参考家庭影院设备说明书

## ■ 安全警示

为避免电击、高温、着火、辐射、爆炸、机械危险以及使用不当等可能造成的人身伤害或财产损失，使用本产品前，请仔细阅读并遵守以下事项：

1. 使用产品时请确认所连接设备与本产品功率是否匹配以及合理调整音量大小，不要在超过产品功率及大音量下长时间使用，以免造成产品异常和耳朵听力损伤；
2. 使用中若发现有异常（如冒烟、异味等），请立即关闭电源开关并拔掉电源插头，然后将产品送经销商检修；
3. 本产品及配件都应放置在室内干燥通风处，勿长期存放在潮湿、灰尘多的环境，使用中避免靠近火源、碰到液体物质、雨淋、过度碰撞、抛掷、振动本机及覆盖通风孔，以免损坏其功能；
4. 若产品需要固定于墙壁或天花板上时，请确保固定到位，防止因固定强度不足导致产品发生跌落危险；
5. 使用该产品时需遵守相关安全规定，法律法规明确禁止使用场合请勿使用本机，以免导致意外事故；
6. 请不要自行拆机改装或维修，以防止出现人身伤害，如有问题或服务需求请联系当地经销商跟进处理；

## ■ Preface

Dear Customer,

Thank you for purchasing TAKSTAR ESC-15A active subwoofer. Please read the user manual carefully before operation and keep it for reference in future.

If you have any questions or suggestions, please contact our local dealer.

## ■ Features

- High-efficiency Class D power amplifier
- High-power 15" 100mm subwoofer, sixth-order bandpass subwoofer enclosure, excellent low-frequency response, 131dB Max SPL
- Suitable for use with Takstar column speakers and ELV series speakers
- A variety of preset programs to meet more and higher requirements for sound reinforcement
- Comprehensive intelligent protection: overheating (power limiting-overheating shutdown) short circuit/overload/clipping limit/high-frequency protection
- Limiters: peak limiter, RMS limiter, frequency offset limiter, clipping limiter, temperature limiter
- 48KHz DSP and multiple filters for the authentic sound of high definition and ultra-low latency
- Entering various DSP functions to load presets or make precise adjustments to PEQ, delay, and routing via the LED display
- Built-in cardioid mode deployment for the bass management on the stage
- Deep, full, and powerful bass

## ■ Application

Used together with full-range speakers in music restaurants, bars, Live House, KTV, etc.

## ■ Product Content

ESC-15A active subwoofer.....	1pc
Power cord.....	1pc
User manual.....	1pc
Adapter.....	1pc

## ■ Specifications

### Loudspeaker Specification

Speaker Type: 15" active subwoofer, band-pass

Max SPL (Peak): 131dB

Frequency Response (-10dB): 40Hz-150Hz

Unit: High-power 15" cone woofer unit, 100mm voice coil

Output Power: Dynamic: 1600W (AES)/Continuous: 800W (AES)

### Power Amplifier Specification

Sensitivity@8Ω:  $\leq 2.2V/+9dBu@32Db$  gain

S/N Ratio:  $\geq 115dB$  (A weighted)

Amplifier Power:  $2 \times 1000W @ 8\Omega$ ,  $2 \times 1500W @ 4\Omega$

I/O Interface: INPUT for input, LINK for output

Processor: 2 In 1 Out

Connection:  $1 \times NL4$  speakon (1+, 1- for LF) +  $2 \times NL4$  speakon (2+, 2- for full frequency)

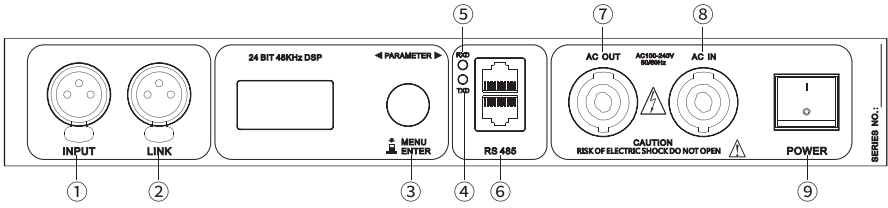
Power Supply: AC 100V~240V, 50Hz/60Hz

Weight: approx. 45.3Kg (net weight)

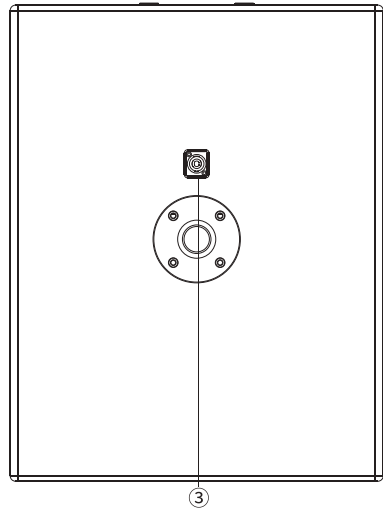
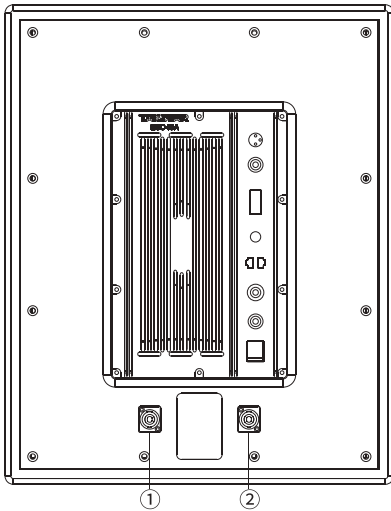
Dimensions (mm):  $470 \times 600 \times 598$  (W×D×H)

Note: The data is tested by Takstar Laboratory, and Takstar has the final interpretation right!

## ■ Functions of the Panel



- ① INPUT: signal input
- ② LINK: signal output
- ③ MENU ENTER: enter the menu
- ④ TXD green light: indicator for signal transmitting
- ⑤ RXD red light: indicator for signal receiving
- ⑥ RS 485: network interface
- ⑦ AC OUT: power output
- ⑧ AC IN: power input
- ⑨ POWER: power switch



- ① Reserved LF parallel output interface (1+, 1-)
- ②③ Parallel full-frequency output interface (2+, 2-)

## ■ Steps for Operation

### 1. Standard Screen

Volume	🔊	0dB
1.ESC-15A FRONT		
ID		02
Temp		26.5°C

Volume: Display the loudspeaker icon when there is audio input.  
Preset number and name in use  
The ID of the device  
The temperature of the device

Remote
Mute
Idle

"Remote" will be displayed during online control, and other settings cannot be made at this time.  
"Mute" will be displayed when the device is muted by the computer software.  
"Idle" will be displayed when the device enters the sleep state.  
Press the knob for "Volume Adjustment".

---

### 2. Volume Adjustment

Volume
0dB

The volume increases when the knob is turned clockwise, and decreases when the knob is turned counterclockwise.  
The adjustment range is 0 — -40dB and the step value is 1dB.  
Press the knob to store the volume and enter "Calling a Preset".

---

### 3. Calling a Preset

Preset
1.ESC-15A FRONT

Turn the knob to select the preset to be called. Press the knob to call the selected preset (if a new preset is selected), and enter "ID adjustment".

---

### 4. ID Adjustment

RemoteControl ID
02

Turn the knob to adjust the ID. When multiple modules are connected to the computer at the same time, they must be set to different IDs. When the knob is pressed, the ID is stored and the "standby mode selection" is entered.

---

## 5. Standby Mode Selection

Idle Mode 0  
Closed  
Output Stage

Turn the knob to select the standby mode. Mode 0: Turn off the power amplifier output stage.

Idle Mode 1  
Closed  
Output Stage  
And Power

Mode 1: Turn off the power amplifier output stage and the main power supply. 3004 does not support mode 1, and it may keep restarting after mode 1 is selected. When the knob is pressed, the standby mode is stored and the "Standby Time Selection" is entered.

---

## 6. Standby Time Selection

Idle timeout  
  
00 Minute

Turn the knob to adjust the standby time. When no input signal is detected during the standby time, it will enter the sleep state. The standby time ranges from 0 to 30 minutes. When set to 0, it will not enter the sleep state, and the power amplifier will be working all the time. When the knob is pressed, the standby time is stored and the "Standard Screen" is entered.

---

## 7. Other States

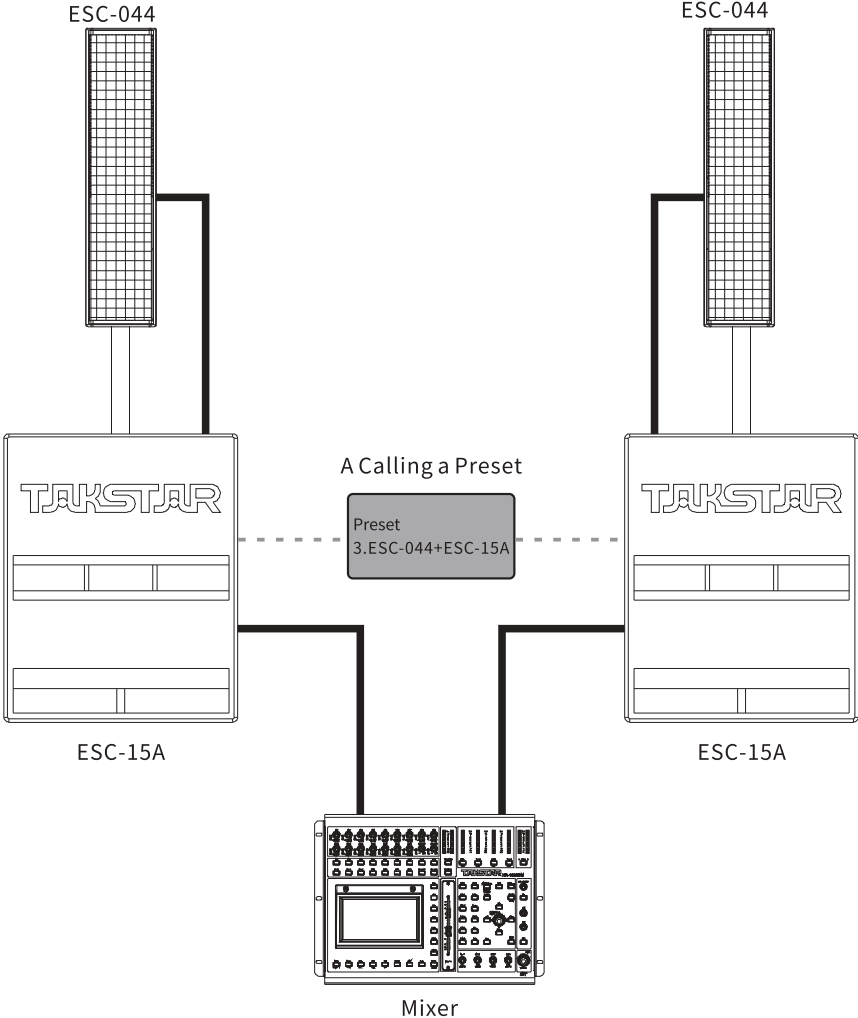
Remote  
Mute  
Idle

"Remote" will be displayed during online control, and other settings cannot be made at this time. "Mute" will be displayed when the device is muted by the computer software. When the device enters the sleep state, "Idle" will be displayed. When there are the above three states, the standard screen will not be displayed.

## Basic Settings

System example 1

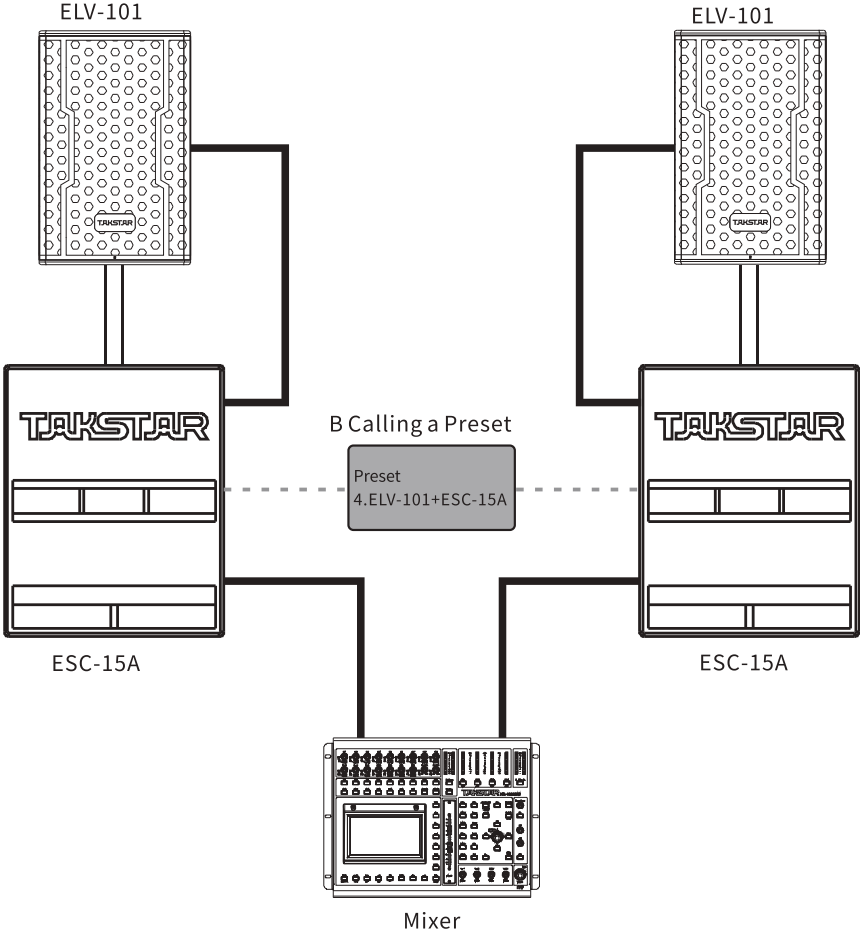
This example uses ESC-15A and ESC-044 speakers.



# ESC-15A Active Subwoofer

## System example 2

This example uses ELV-101 and ESC-15A speakers.



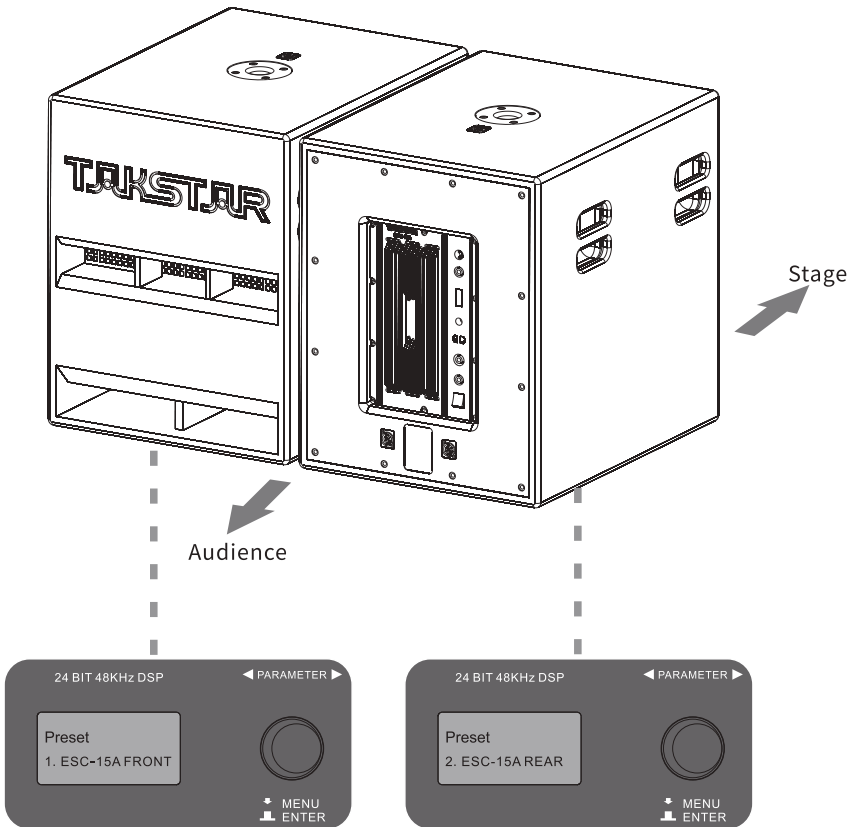
## ■ Cardioid Mode Deployment

The cardioid mode deployment can add extra low-frequency control to the bass array composed of two or more ESC-15A speakers, which can effectively reduce the bass sound pressure level on the stage and transmit more bass to the audience.

**Note:**

1. Use the same ESC-15A speakers and input signal.
2. To maximize the cardioid features, please place the speakers at least 1.2 meters away from the wall.

Arrangement: two speakers side by side



## ■ Troubleshooting

Problems	Causes	Solutions
No sound	Power off.	Turn on the power switch.
	Volume knob is set to the minimum position.	Increase the volume.
	No LF signal input.	Check the system connection or the equipment setting.
Bass distortion	The output of the power amplifier reaches its limit.	Turn down the subwoofer or the total volume of the system.
	The frequency range of the power amplifier is too wide.	Narrow the frequency range.
Distortion or abnormal sound in large dynamic	Overly dynamic sounds (such as explosions) overload the subwoofer.	Turn down the subwoofer or the total volume of the home theater equipment appropriately.
Buzz noise or AC noise	Connection problems or grounding problems.	Refer to the user manual of the home theater equipment.

## ■ Safety Instructions

To avoid possible personal injury or property damage caused by electric shock, high temperature, fire, radiation, explosion, mechanical hazards, and improper use, please read and observe the following items before using the product.

1. When using the product, please confirm whether the power of the connected device matches the product power and adjust the device volume. Please do not use it for a long time when the product power is exceeded or at a high volume to avoid product failure and hearing damage.
2. If there is any abnormality (such as smoke, odor, etc.) during use, please turn off the power switch and unplug the power plug immediately, and then send the product to the dealer for maintenance.
3. The product and accessories should be placed indoors in a dry and ventilated place. Do not store them in a humid and dusty environment for a long time. Avoid getting close to the fire, liquids, rain, water, excessive collision, throwing, vibrating the machine, and covering the ventilation holes during use, so as not to damage its function.
4. If the product needs to be fixed on the wall or ceiling, please make sure to fix it in place to prevent it from falling.
5. When using the product, you must abide by the relevant safety regulations and do not use it on occasions that are prohibited by laws and regulations to avoid accidents.
6. Please do not disassemble, refit, or repair the product by yourself to prevent personal injury. If you have any questions or service needs, please contact the local dealer for follow-up.

# 产品服务保证书

姓名：\_\_\_\_\_ 电话：\_\_\_\_\_ 地址：\_\_\_\_\_

商品：\_\_\_\_\_ 型号：\_\_\_\_\_ 购买日期：\_\_\_\_\_ 年 \_\_\_\_\_ 月 \_\_\_\_\_ 日

维修记录栏 (由维修员填写)	维修员签名	日期

## 注意事项：

1. 本单为保修凭证，请用户妥善保管，如有遗失，恕不保修或退换。
2. 保修期限制：购买之日起十二个月内。
3. 除了不可抗力事件损坏外，由本公司负责，免费维修。
4. 如属保管不善或使用不当造成的损坏，维修点将酌情收费。
5. 擅自拆卸维修者，不予保修。
6. 以上保修条款仅限于中国市场适用（不含港澳台地区）。

◆ 广东得胜电子有限公司 ◆ 电话：400-6828-333 ◆ 地址：广东省惠州市博罗县龙溪街道雷康一路2号



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Email: sales@takstar.com  
Website: www.takstar.com