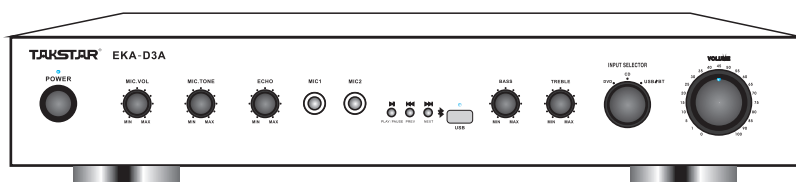


TAKSTAR® 得胜



EKA-D3A 功率放大器 Power Amplifier

使用手册 | User Manual

EKA-D3A 功率放大器

■ 前言

感谢您选购得胜EKA-D3A功率放大器,为了您能够更好地了解使用本产品,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

- 先进的超低音失真功率放大线路;
- 双路麦克风输入插座;
- 优异立体声场效果;
- 完美的喇叭保护电路音箱喇叭伤害减到最少;
- 专业级高效环形变压器;
- 数位卡拉OK采用专业混音处理芯片;
- 预设无线咪麦克风输入接口系统升级永不落后;
- 支持混音深度独立控制。

■ 适用范围

用于教室、小型会议室

■ 产品配置

功放	1台
说明书.....	1份

EKA-D3A 功率放大器

■ 技术参数

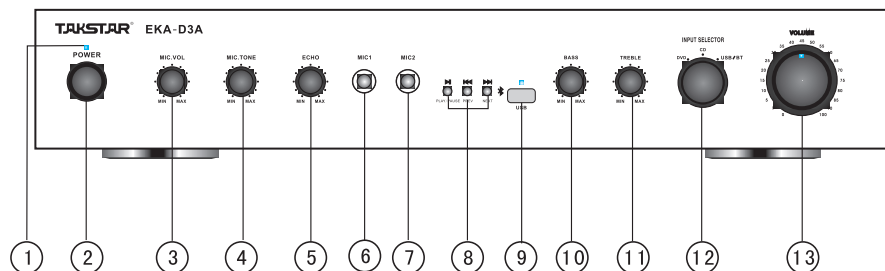
- 主声道额定功率: $30\text{W} \times 2 (8\Omega)$
- 副声道: $15\text{W} \times 3 (8\Omega)$
- 总谐波失真: $<1.5\% (1\text{kHz}, 1\text{W}, 8\Omega)$
- 频率响应: $20\text{Hz} \sim 20\text{kHz} (\pm 3\text{dB})$
- 信噪比: 78dB (A计权)
- 通道分离度: 32dB
- 输入灵敏度: 350mV
- 麦克风输入灵敏度: 18mV
- 消耗功率: 60W
- 电源要求: $\sim \text{AC}220\text{V}/50\text{Hz}$
- 外型尺寸 (宽 $\times$ 长 $\times$ 高): $430\text{mm} \times 320\text{mm} \times 75\text{mm}$

注: 以上数据由得胜实验室测试得到, 并拥有最终解释权!

EKA-D3A 功率放大器

■ 功能示意

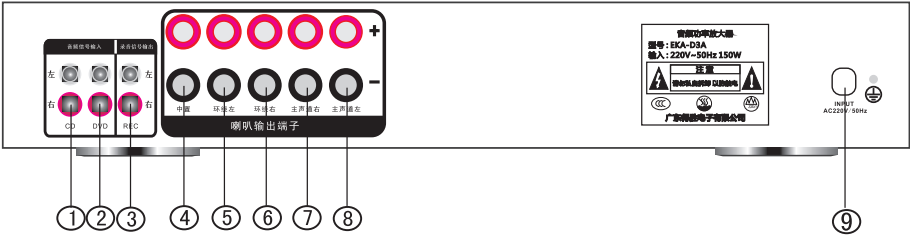
前面板



- ① 电源指示灯：电源开启时，指示灯发亮。
- ② 电源开关 (POWER)：按此开关，接通电源；再按此开关，则切断电源。
- ③ 麦克风音量调节控制旋钮 (MIC.VOL)：顺时针调节该控制旋钮，可提升麦克风的音量；逆时针调节该旋钮，则衰减麦克风的音量；注意：在使用之前，请将该控制旋钮逆时针旋至较低端，以免音量过大产生啸叫。
- ④ 麦克风音量调节控制旋钮 (M.TONE)：顺时针调节该旋钮则提升麦克风高音，衰减麦克风低音；逆时针调节该旋钮则提升麦克风低音，衰减麦克风高音。
- ⑤ 卡拉OK混音深度调节控制旋钮 (ECHO)：顺时针调节该控制旋钮，可增强卡拉OK的混音深度，逆时针调节则衰减卡拉OK的混音深度。
- ⑥ 麦克风输入插孔 (MIC1)：此麦克风输入插孔可供单人独唱或双人合唱，插入话筒时，自动接通卡拉OK；拔出话筒则自动断开。
- ⑦ 麦克风输入插孔 (MIC2)：此麦克风输入插孔可供单人独唱或双人合唱，插入话筒时，自动接通卡拉OK；拔出话筒则自动断开。
- ⑧ 上一曲、下一曲、暂停播放选择按键。
- ⑨ USB输入插口
- ⑩ 音乐低音调节该控制旋钮 (BASS)：顺时针调节该控制旋钮，可增强音乐的低音，逆时针调节则衰减音乐的低音。
- ⑪ 音乐高音调节该控制旋钮 (TREBLE)：顺时针调节该控制旋钮，可增强音乐的高音，逆时针调节则衰减音乐的高音。
- ⑫ 音频信号源输入选择旋钮 (INPUT SELECTOR)：顺时针旋转变此开关可以分别选择光碟机 (DVD)，镭射唱机 (CD)，读卡器 (USB/BT) 选择。
- ⑬ 主声道音量控制旋钮 (VOLUME)：顺时针旋转此旋钮可增强音乐音量，逆时针旋转此旋钮可以衰减音乐音量。

EKA-D3A 功率放大器

后面板



① 镭射唱机 (CD) 立体声信号源输入插孔：

其中上排为左声道，下排为右声道信号源输入插孔，此端子可以接音箱喇叭，
注意音箱阻抗不能小于4欧姆，同时请注意输出极性。

② 光碟机 (DVD) 立体声信号源输入插孔：

其中上排为左声道，下排为右声道信号源输入插孔。

③ REC录音信号输出

④ 中置声道输出端子

⑤ 环绕左声道输出端子

⑥ 环绕右声道输出端子

⑦ 右主声道输出端子

⑧ 左主声道输出端子

⑨ 电源输入线

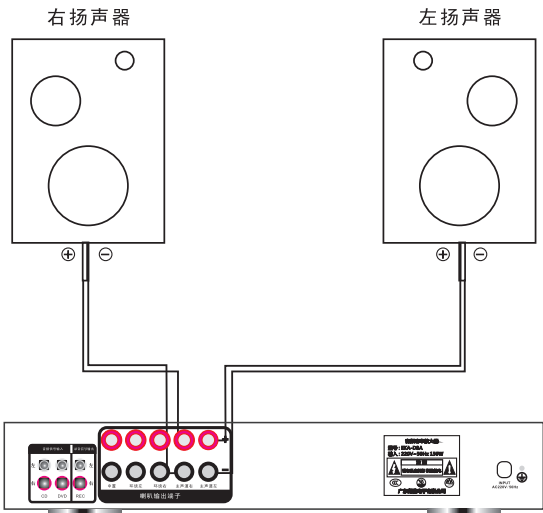
注意：输入电源电压规格为交流220V/50Hz。

EKA-D3A 功率放大器

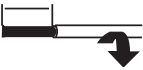
■ 使用说明

扬声器连接注意事项

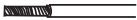
- 1. 连接扬声器前请先把电缆剥口，线芯拧紧。
- 2. 各扬声器的电缆端子须可靠连接。不能让电缆互相短路，注意极性不可接反。



■ 要连接扬声器导线时



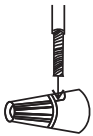
1 拧紧导线



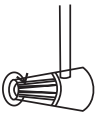
2 逆时针拧松端子



3 导线部分全部插入



4 顺时针牢固拧紧

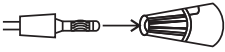


■ 连接香蕉插头时

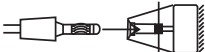
1 拧紧扬声器端子



2 把香蕉头牢固地插入端子中



3 侧视图



注意：如果扬声器端子拧不紧，则听不到声音。

EKA-D3A 功率放大器

■ 注意事项

- ◆ 拔掉电源线时,请握住塑料模具插头,不要拉扯电线,勿在电源线上堆放重物。
- ◆ 请勿试图修理或改装本机。勿取下外壳,接触内部件极其危险,可能会引起本机的严重故障。
- ◆ 避免放置于下列场合:
 1. 本机从寒冷的环境中被带到充分加热的环境中,机内可能会凝聚湿气,导致不能正常工作,因此在确认本机内部无湿气后,方可使用。
 2. 潮湿的地下室、浴缸、游泳池等处。
 3. 长时间暴露于直射阳光下的房间内,靠近强烈光源或热源。
 4. 有灰尘蒸气或温度高,有油烟的地方。
- ◆ 必须将本机置于平坦的水平面上,如果表面倾斜,可能会发生功能故障。
- ◆ 必须将本机置于通风良好的场所,不要将本机置于沙发、地毯或类似表面上使用,以免撑住通风口。
- ◆ 雷雨中不得使用本机,请尽快从电源插座上拔掉电源线。
- ◆ 如准备长期不用时,请拔下电源线,如果让本机长期处于电源接通的情形下,不仅会缩短其有效的寿命,还可能导致其它故障。
- ◆ 请勿使用挥发性溶液及其它同类化学物品清洁,如:酒精、涂料稀释剂、挥发油等。
- ◆ 必须注意防止金属物体或液体从开口处掉入或流入内部否则可能导致装置内部导电,产生电击危险。

■ 环保说明

产品中有害有毒物质或元素的名称及含量标识表

部件名称	有害有毒物质或元素									
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	邻苯二甲酸 二正丁酯 (DBP)	邻苯二甲酸 二异丁酯 (DIBP)	邻苯二甲酸 丁基苄酯 (BBP)	邻苯二甲酸 二(2-乙基)己酯 (DEHP)
塑料部件	○	○	○	○	○	○	○	○	○	○
金属部件	×	○	○	○	○	○	○	○	○	○
电路板组件	×	○	○	○	○	○	○	○	○	○
线缆	×	○	○	○	○	○	○	○	○	○
注1: ○ :表示该有害物质在该部件所有均质材料中的含量均不超出电器电子产品有害物质限制使用国家标准要求。 × :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电器电子产品有害物质限制使用国家标准要求。 注2:以上未列出的部件,表明其有害物质含量均不超出电器电子产品有害物质限制使用国家标准要求。										
此标志为产品的环保使用期限标志, 且此环保使用期限只适用于产品正常工作的温度和湿度等条件。										



EKA-D3A 功率放大器

■ 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设备与本产品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；
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，然后将产品送售后服务网点检修；
3. 消费者若使用电源适配器供电，则应购买配套使用获得CCC认证并满足标准要求的电源适配器；
4. 本产品及配件都应放置在室内干燥通风处，请勿长期存放在潮湿、灰尘多的环境，使用中避免靠近火源、雨淋、进水、过度碰撞、抛掷、振动本机及覆盖通风孔，以免损坏其功能；
5. 若产品需要固定于墙壁或天花板时，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；
6. 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产品，以免导致意外事故；
7. 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售后服务网点跟进处理。

■ 关于图标含义解释

 此符号表示，根据WEEE指令(2012/19/EU)和国家法律，由于这种类型的废弃物会有潜在的有害物质，可能对环境 and 人类健康产生负面影响，所以本产品不应与您的家庭垃圾一起处置，
■ 应将本产品交由授权的电气和电子设备（WEEE）回收站回收。同时，您在正确处理本产品的同时将有助于自然资源的有效利用。如需了解更多有关您可以在何处放置废物回收设备的信息，请联系您当地的城市办事处、废物管理局或家庭废物处理服务部门。

■ 关于本说明书

本说明书中内容符合截止印刷之日的技术规格。由于得胜公司会不断改进产品，本说明书可能不符合您的特定产品的技术规格。要获取最新版说明书，请访问得胜官网，然后下载说明书文件。技术规格、设备或另售的附件在各个地区可能有所不同，如有问题请与当地得胜销售网点确认。如需更多支持和深层产品信息，请浏览得胜官方网站：<https://www.takstar.com>

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EKA-D3A Power Amplifier

■ Preface

Dear Customer,

Thanks for purchasing our product. Read this manual thoroughly for proper use.

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

■ Features

- Advanced ultra-low distortion power amplification circuit.
- Dual microphone input jacks.
- Excellent stereo sound field effect.
- Perfect speaker protection circuit to minimize speaker damage.
- Professional-grade high-efficiency toroidal transformer.
- Digital karaoke with professional mixing processor chip.
- Preset wireless microphone input interface for future-proof system upgrades.
- Independent mixing depth control.

■ Applications

Suitable for classrooms and small meeting rooms.

■ Package Contents

1 × Power Amplifier

1 × User Manual

EKA-D3A Power Amplifier

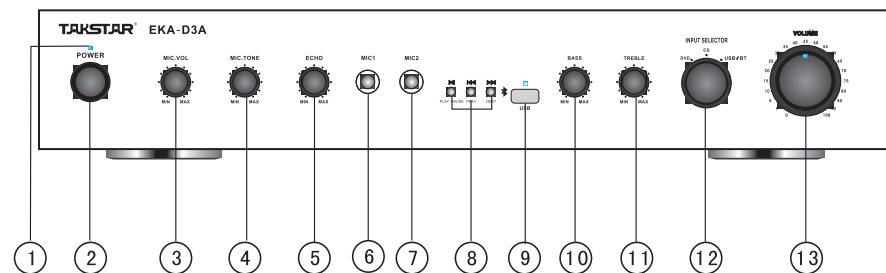
■ Specifications

- Main Channel Rated Power: 30W×2 (8Ω)
- Sub Channel: 15W×3 (8Ω)
- THD: <1.5% (1kHz, 1W, 8Ω)
- Frequency Response: 20Hz–20kHz (±3dB)
- Signal-to-Noise Ratio: 78dB (A-weighted)
- Channel Separation: 32dB
- Input Sensitivity: 350mV
- Mic Input Sensitivity: 18mV
- Power Consumption: 60W
- Power Supply: AC 220V/50Hz
- Dimensions (W×D×H): 430×320×75mm

Note: The above data are measured by Takstar laboratory which has the final interpretation right!

■ Function Descriptions

Front Panel

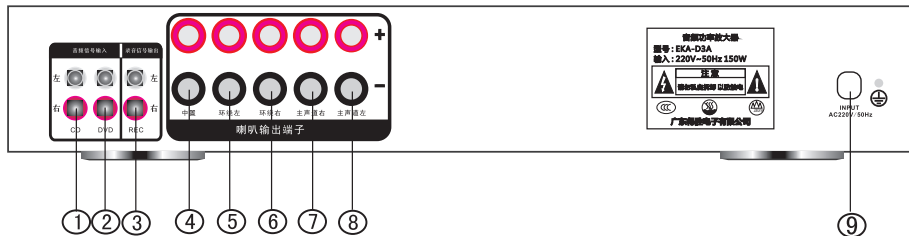


- ① Power Indicator: Lights up when the power is on.
- ② Power Switch (POWER): Press to turn the power on; press again to turn it off.
- ③ Microphone Volume Knob (MIC.VOL): Turn clockwise to increase microphone volume; turn counterclockwise to decrease. Before use, turn fully counterclockwise to prevent feedback.
- ④ Microphone Tone Knob (M.TONE): Turn clockwise to boost mic treble and cut mic bass; turn counterclockwise to boost mic bass and cut mic treble.
- ⑤ Echo Depth Knob (ECHO): Turn clockwise to increase karaoke echo depth; turn counterclockwise to decrease.

EKA-D3A Power Amplifier

- ⑥ Microphone Input Jack (MIC1): Insert a microphone to activate karaoke automatically; remove it to deactivate. Suitable for solo or duet singing.
- ⑦ Microphone Input Jack (MIC2): Insert a microphone to activate karaoke automatically; remove it to deactivate. Suitable for solo or duet singing.
- ⑧ Playback Control Buttons: Previous, Next, and Play/Pause.
- ⑨ USB Input Port
- ⑩ Music Bass Knob (BASS): Turn clockwise to boost music bass; turn counterclockwise to cut music bass.
- ⑪ Music Treble Knob (TREBLE): Turn clockwise to boost music treble; turn counterclockwise to cut music treble.
- ⑫ Input Selector Knob (INPUT SELECTOR): Rotate clockwise to select DVD, CD, USB/BT card reader respectively.
- ⑬ Master Volume Knob (VOLUME): Turn clockwise to increase music volume; turn counterclockwise to decrease.

Rear Panel



- ① CD Stereo Input Jack: Upper row is left channel, lower row is right channel. This terminal can be connected to speakers. Note: Speaker impedance must not be less than 4Ω, and observe output polarity.
- ② DVD Stereo Input Jack: Upper row is left channel, lower row is right channel.
- ③ REC Audio Output
- ④ Center Channel Output Terminal
- ⑤ Surround Left Output Terminal
- ⑥ Surround Right Output Terminal
- ⑦ Right Main Channel Output Terminal
- ⑧ Left Main Channel Output Terminal
- ⑨ Power Input Cord

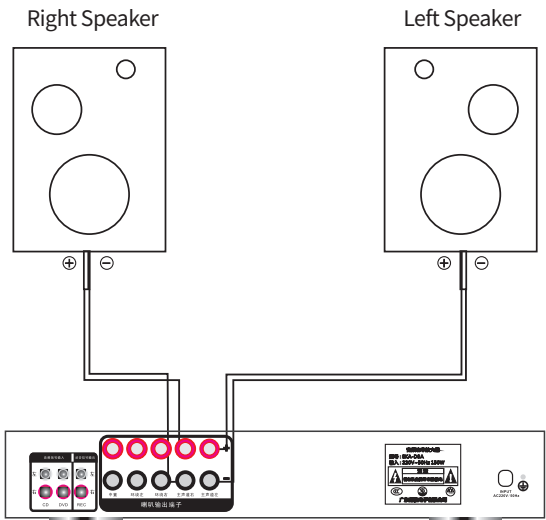
Note: Power supply voltage specification: AC 220V/50Hz.

EKA-D3A Power Amplifier

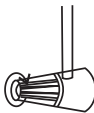
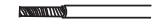
■ Operating Instructions

Speaker Connection Precautions

1. Before connecting speakers, strip the cable ends and twist the wire cores tightly.
2. Ensure all speaker cable terminals are securely connected. Do not allow cables to short-circuit with each other, and be careful not to reverse the polarity.

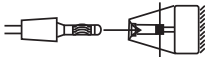
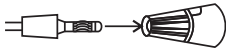


■ To connect speaker wires



■ To connect banana plugs

1 Tighten the speaker terminals.



EKA-D3A Power Amplifier

■ Cautions

- ◆ When unplugging the power cord, grip the plastic plug. Do not pull the cable. Do not place heavy objects on the power cord.
- ◆ Do not attempt to repair or modify this unit. Do not remove the cabinet. Touching internal components is extremely dangerous and may cause serious malfunctions.
- ◆ Avoid placing the unit in the following locations:
 1. If the unit is moved from a cold space to a warm room, internal condensation may occur and cause abnormal operation. Do not use it until moisture inside dissipates.
 2. Damp basements, near bathtubs, swimming pools and other wet areas.
 3. Rooms exposed to direct sunlight for long periods, or close to strong light or heat sources.
 4. Dusty, steamy, high-temperature or oily environments.
- ◆ Place the unit on a flat horizontal surface. Tilting may cause malfunctions.
- ◆ Install the unit in a well-ventilated area. Do not place it on sofas, carpets or similar surfaces that block ventilation openings.
- ◆ Do not operate the unit during thunderstorms. Unplug the power cord from the socket immediately.
- ◆ Unplug the power cord if the unit will not be used for a long time. Continuous power supply shortens service life and may trigger other faults.
- ◆ Do not clean with volatile solvents such as alcohol, paint thinner or turpentine.
- ◆ Prevent metal objects or liquid from entering the unit through openings. Internal short circuit may occur and lead to electric shock hazards.

■ Safety Instructions

To avoid electric shock, overheat, fire, radiation, explosion, mechanical risk and injury or property loss due to improper use, please read and observe the following items before use:

1. Please check if the power of the connected equipment matches with that of this product before operation. Adjust the volume to proper level during operation. Do not operate at over-power or high-volume level for extended time to avoid product malfunction.
2. If there is any abnormality during use (e.g., smoke, strange odor), please kill the power switch and unplug from power source, then send the product to the local after-sales service for repair.
3. Power adapter used, if any, should be approved by CCC certification or similar standards and comply with the power supply requirements.

EKA-D3A Power Amplifier

4. Keep this product and its accessories in a dry and ventilated area. Do not store in a humid or dusty area for extended time. Keep away from fire, rain, liquid intrusion, bumping, throwing, vibrating, or from blocking any ventilation openings, to prevent malfunction.
5. The product must, when installed on walls or ceilings, be fixed firmly in place at adequate strength to prevent from falling.
6. Please abide by safety rules during operation. Do not use the product in places prohibited by laws or regulations to avoid accident.
7. Do not disassemble or repair the product by yourself to avoid injury. If you have any questions or require any services, please contact our local after-sales service.

■ Label Meanings



This symbol indicates that this product should not be disposed of with your household waste, according to the WEEE directive (2012/19/EU) and your national law. This product should be handed over to an authorized collection site for recycling waste electrical and electronic equipment (WEEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with WEEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, or your household waste disposal service.

■ About This Manual

This manual contains up-to-date technical specifications as of printing. However, specifications contained herein may not conform to your particular product since Takstar is constantly improving its products. Also, specifications, devices or accessories available may vary from region to region. If you have any questions, please contact our local sales outlet. For the latest version/more information, please visit our website: <https://www.takstar.com/>
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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（不包含港澳台地区）。

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

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