

TAKSTAR® 得胜



MK-3

多功能三合一功放机

3-in-1 Multi-Functional Amplifier

使用手册 | User Manual

MK-3 多功能三合一功放机

■ 前言

感谢您选购得胜MK-3多功能三合一功放机,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

- 一款集成无线V5.3解码, MP3/WMA/MAV/FLAC/APE/ACC解码, 24位DAC, ADC解码的高性能SOC功率放大器, 可支持两路麦克风 / 吉他 单独调节, 支持USB、SD卡、无线连接播放;
- 1.5U铝合金面板, 环形变压器+DSP前级效果器+D类后级;
- 2路模拟立体声输入 (VOD、AUX) +4 路数字输入 (蓝牙、光纤、同轴、USB),
- 3 种工厂预设音响效果、1 种客户自定义效果, 3 档防啸叫功能;
- 2 路音乐输出、1 路人声输出、1路超低输出;
- 2路麦克风输入, 可实现单独调节高低音、EQ、噪声门限、压限、音量、路由等功能;
- 2路全频输出, 加1路超低音输出, 全频支持31段EQ, 低音支持5段EQ可调;
- 3 路输出均可进行专业滤波器分频, 支持压限, 输入通道及效果路由功能, 通道延时、正反相相位功能设置, 通道单独静音;
- 应用于效果器的ECHO和REVERB算法, 效果浑厚有力, 有强烈包围感;
- 9 分频: 三路输出均带贝塞尔, 巴特沃斯, 宁克三种专业滤波器, 斜率6dB~48dB 可选。分频点准确, 分频快速, 可完全取代模拟分频器;
- 支持所调效果任意保存到机器或从机器内调取, 可保存10种模式, 也可保存到电脑中, 保存音效无误差。

■ 适用范围

适用于家庭K歌、娱乐包房、多功能厅、宴会厅、农家乐、会议室、教室、商超等场合

MK-3 多功能三合一功放机

■ 产品配置

三合一功放.....	1台
遥控器.....	1个
无线麦克风.....	2支
电源线.....	1条
USB数据线.....	1条
18650电池	2个
7号干电池	1对
麦克风天线 200mm	2条
说明书.....	1份

■ 技术参数

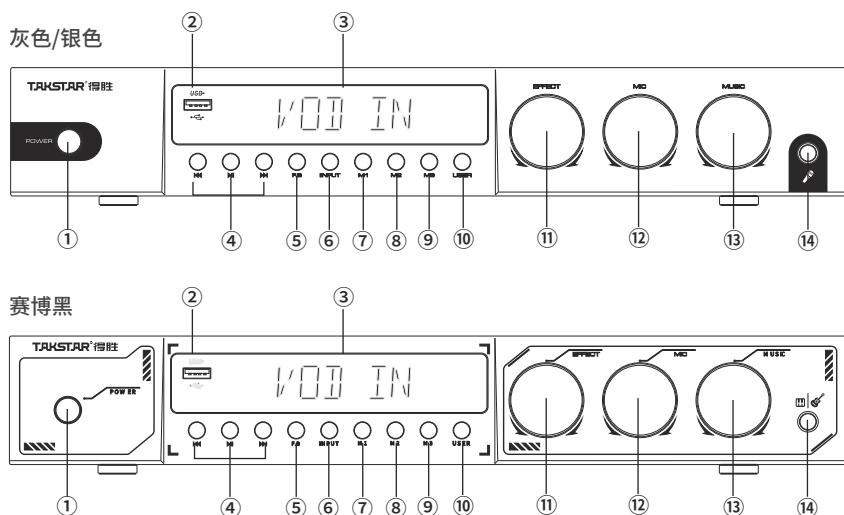
- 额定功率:2*150W
- 音乐灵敏度:465mV
- MIC灵敏度:48mV
- 频率响应:20Hz-20kHz ±3dB
- 信噪比:>80dB
- 谐波失真:<0.1%
- 机身尺寸:430*220*65mm
- 毛重:约7kg

注:以上数据由得胜实验室测试得到,并拥有最终解释权!

MK-3 多功能三合一功放机

■ 功能示意

前面板介绍



- ① POWER电源开关
- ② U盘播放接口
- ③ 显示屏/IR红外接收
- ④ 上一曲/播放/暂停/下一曲
- ⑤ 麦克风反馈抑制
- ⑥ INPUT通道输入选择 (VOD/AUX/BT/OPT/COAX)
- ⑦ 专业K歌模式 (M1)
- ⑧ 业余K歌模式 (M2)
- ⑨ 会议模式 (M3)
- ⑩ 用户自定义模式 (USER) 长按5秒可保存当前调试效果(赛博黑为弹唱自定义模式)
- ⑪ EFFECT效果旋钮
- ⑫ MIC麦克风旋钮
- ⑬ MUSIC音乐旋钮
- ⑭ MIC外置麦克风接口(赛博黑为乐器高阻抗输入口)

* 长按效果旋钮5秒可关闭自动锁键模式, 可进行效果调试, 调试完毕长按USER键5秒保存效果。

* 长按效果旋钮5秒可开启自动锁键模式。

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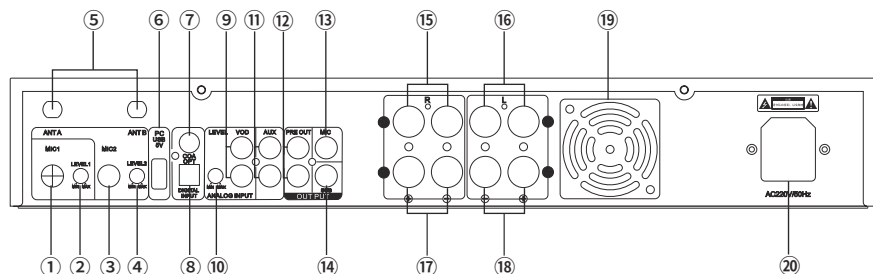
EFFECT 效果按键功能

解锁后屏幕显示对应的调节功能

手动操作调音指引					
长按EFFECT旋钮5秒，关闭功能锁才能操作					
EFFECT 效果		MIC 麦克风		MUSIC 音乐	
菜单显示	功能	菜单显示	功能	菜单显示	功能
EFF	效果总音量调节	MIC	麦克风音量调节	MUS	音乐音量调节
ECHO	回响效果调节	TF	高频频点调节	TF	高频频点调节
REV	混响效果调节	TRE	高音调节	TRE	高音调节
REP	回响次数调节	MF	中音频点调节	MF	中音频点调节
DEL	回响时间调节	MID	中音调节	MID	中音调节
REV W	混响宽度调节	BF	低频频点调节	BF	低频频点调节
REV R	混响深度调节	BAS	低音调节	BAS	低音调节
HP	效果低切	HP	麦克风低切	HP	音乐低切
LP	效果高切	FBC	反馈抑制调节	SUB F	超低频点调节
				SUB V	超低音量调节
效果参数修改后，需要长按USER按键5秒保存效果					

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背面板介绍

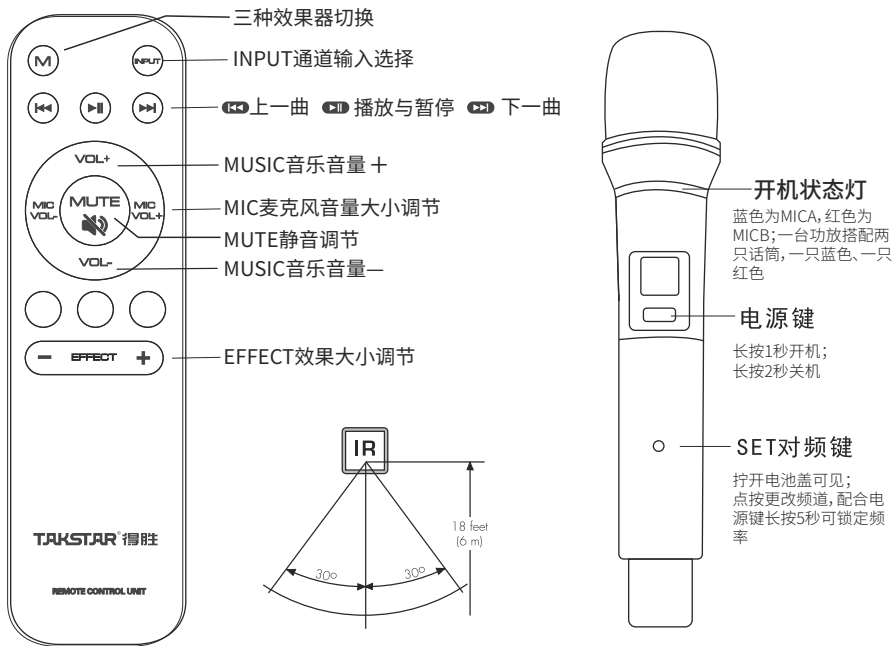


- ① 外置有线/无线麦克风输入1
- ② 麦克风1输入增益 (包含前面板麦克风增益)
增益调节 (出厂设置调在中间)
- ③ 外置有线/无线麦克风输入2
- ④ 麦克风2输入增益 (包含内置无线麦克风增益)
增益调节 (出厂设置调在中间)
- ⑤ 内置无线麦克风天线接口
- ⑥ PC电脑软件调试接口 / 5V USB充电口 (可用于无线麦克风充电)
- ⑦ COAX 同轴信号输入
- ⑧ OPT 光纤信号输入
- ⑨ VOD 点歌机信号输入
- ⑩ VOD 输入信号增益
VOD 点歌机输入增益 (出厂设置调在最右边)
- ⑪ AUX 模拟信号输入, 如DVD、电脑等
- ⑫ 前级立体声输出
- ⑬ 麦克风干声输出, 用于连接外部点歌机语音控制功能
- ⑭ 超低信号输出, 可外接有源超低音箱
- ⑮ 主音箱右声道输出
- ⑯ 主音箱左声道输出
- ⑰ 副音箱右声道输出
- ⑱ 副音箱左声道输出
- ⑲ 散热风扇
- ⑳ 电源线接口

*接两只音箱时的阻抗可以4或8欧姆,接四只音箱时的阻抗必须为8欧姆,否则机器会保护

MK-3 多功能三合一功放机

遥控器与麦克风



一、无线麦克风操作方法

1. 开机: 关机状态下, 按电源键 1 秒开机;
2. 关机: 开机状态下, 长按电源键 2 秒关机;
3. 麦克风开机后将自动完成对频, 无需特意对频;
4. 如果多套麦克风同时使用, 则需要分开频道后锁定频率, 以避免串频现象。

二、简易故障解决办法

1. 话筒不响、有杂音或声音断续:
 - ① 检查两只麦克风的显示窗及发光灯带, 需确保为一只蓝色MIC A、一只红色MIC B, 一台功放不能配用两只颜色相同的话筒;
 - ② 检查天线是否安装好;
 - ③ 将点歌机放远一点测试;
 - ④ 更换新电池测试;

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⑤ 以上还不行则更换到其他频道后,把频率锁定再测试;

⑥ 更换话筒测试(必须对应蓝色MIC A或红色MIC B)。

2. 频率锁定:关机状态下,同时按住电源键与调频键5秒,显示屏显示“----”后松手,6秒后便可对频成功。

3. 频率解锁:关机状态下,同时按住电源键与调频键5秒,显示屏显示“-”后松手,6秒后便可解频成功。

4. 无论频率锁定还是解锁,操作过程中只允许打开对应的功放,其他无关功放必须保持关闭。

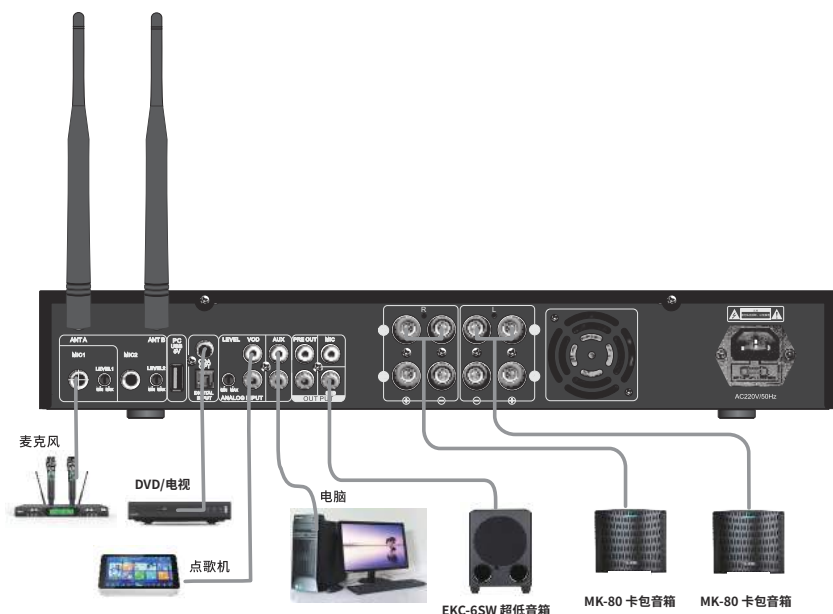
5. 如按以上方法操作后,故障仍未解决,建议联系售后进行检修处理。

■ 使用说明

一、产品的连接与启动

请按如下步骤完成快速连接和启动,操作之前请确保已关闭本机器和所有功率放大器的电源。

1. 将本产品与系统连接。



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2. 在以上操作过程中, 将所有的音量调至最低。
3. 然后接通电源。
4. 信号通过本机时, 在确保功率放大器不削波的前提下, 慢慢调高功率放大器的音量到理想听音效果。

二、设备与手机蓝牙连接操作方法

1. 手按面板INPUT按键, 将通道切换至“BLUE IN”模式。
2. 开启手机的蓝牙功能, 在搜索列表中找到名称为“MK-3”的设备并点击连接, 即可完成配对。

注意: 为了正确地保护扬声器而不影响其性能, 建议您调整音频系统的音量结构并且调节分频器, 均衡器和压限器的设置。

■ 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. 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;
4. 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;
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产品, 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售后服务网点跟进处理。

MK-3 多功能三合一功放机

■ 环保说明

产品中有毒有害物质或元素的名称及含量标识表

部件名称	有毒有害物质或元素									
	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	×	○	○	○	○	○	○	○	○	○
本表格依据SJ/T 11364的规定编制。										
○ : 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572规定的限量要求以下。										
× : 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 GB/T 26572规定的限量要求。										
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。										

■ 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，

应将本产品应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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MK-3 3-in-1 Multi-Functional Amplifier

■ Preface

Dear Customer,

Thank you for purchasing Takstar MK-3 3-in-1 Multi-Functional Amplifier. In order to better understand and use the product, please read this manual carefully.

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

■ Features

- High-performance SOC power amp integrating wireless V5.3, MP3/WMA/MAV/FLAC/APE/ACC, 24-bit DAC/ADC decoding; 2ch mic/guitar inputs with independent control, supports USB/SD/wireless playback.
- 1.5U aluminum panel, toroidal transformer, DSP preamp & Class D power amp.
- 2ch analog stereo inputs (VOD/AUX) + 4ch digital inputs (Bluetooth/Optical/Coaxial/USB).
- 3 factory audio presets, 1 custom effect & 3-level feedback suppression.
- 2ch music outputs, 1ch vocal output & 1ch subwoofer output.
- 2ch mic inputs with independent control of bass/treble/EQ/noise gate/compressor/volume/routing.
- 2ch full-range + 1ch subwoofer outputs; full-range supports 31-band EQ, subwoofer supports 5-band EQ adjustment.
- 3ch outputs with professional crossover, compressor, input/effect routing, delay/phase adjustment & individual mute.
- Applies ECHO and REVERB algorithms for powerful, immersive sound.
- 9-way crossover: 3ch outputs with Bessel, Butterworth, Linkwitz-Riley professional filters. Slope 6dB-48dB selectable, with precise and fast crossover, fully replacing analog crossovers.
- Save or recall any effect with 10 storable modes, or store them to a computer without audio loss.

■ Applications

Suitable for home karaoke, entertainment private rooms, multifunctional halls, banquet halls, agritainment, conference rooms, classrooms, supermarkets and other occasions

MK-3 3-in-1 Multi-Functional Amplifier

■ Package Contents

- 1 × 3-in-1 Amplifier
- 1 × Remote Control
- 2 × Wireless Microphones
- 1 × Power Cable
- 1 × USB Data Cable
- 2 × 18650 Batteries
- 2 × AAA Batteries
- 2 × Microphone Antennas (200mm)
- 1 × User Manual

■ Specifications

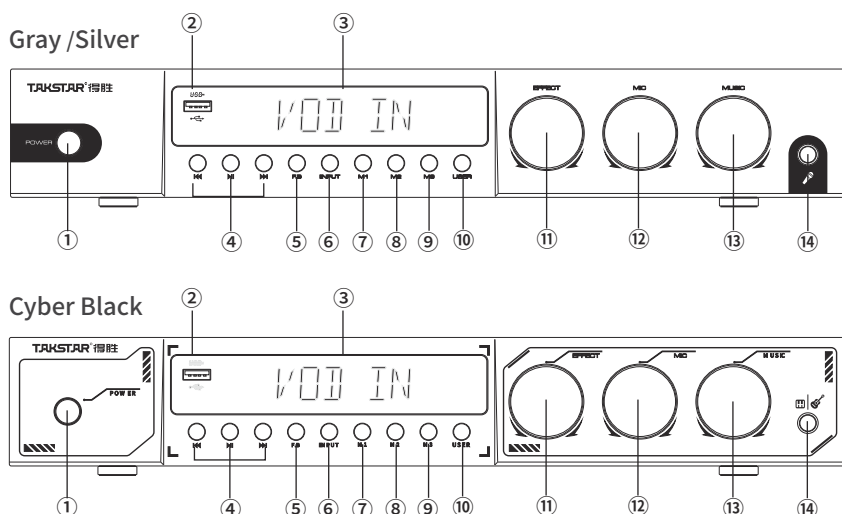
- Rated Power: 2 × 150W
- Music Sensitivity: 465mV
- MIC Sensitivity: 48mV
- Frequency Response: 20Hz-20kHz ($\pm 3\text{dB}$)
- Signal-to-Noise Ratio: >80dB
- Harmonic Distortion: <0.1%
- Dimensions: 430 × 220 × 65 mm
- Gross Weight: Approx. 7kg

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

MK-3 3-in-1 Multi-Functional Amplifier

■ Function Descriptions

Front Panel Overview



- ① POWER Switch
- ② USB Port
- ③ Display/IR Receiver
- ④ Previous, Play/Pause, Next
- ⑤ MIC Feedback Control
- ⑥ INPUT Channel Selection (VOD/AUX/BT/OPT/COAX)
- ⑦ Professional Karaoke Mode (M1)
- ⑧ Standard Karaoke Mode (M2)
- ⑨ Conference Mode (M3)
- ⑩ User Mode (USER): Long press 5s to save settings (Cyber Black: custom songwriter mode)
- ⑪ EFFECT Knob
- ⑫ MIC Knob
- ⑬ MUSIC Knob
- ⑭ MIC Jack (Cyber Black: Hi-Z instrument input)

* Press and hold the EFFECT knob for 5s to disable Auto Lock Mode for effect adjustments, then press and hold the USER button for 5s to save the settings.

* Press and hold the EFFECT knob for 5s to enable Auto Lock Mode.

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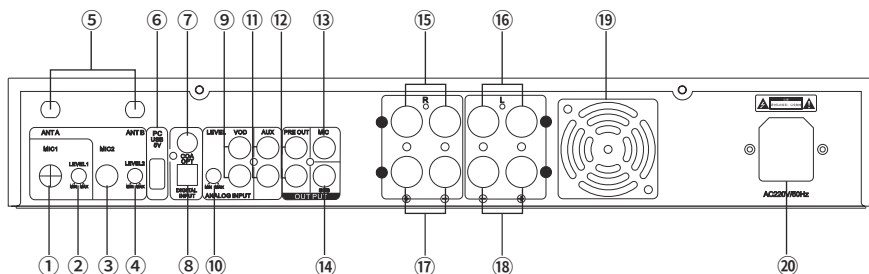
EFFECT Knob Functions

Unlock to show adjustment functions

Manual Tuning Guide					
Long-press EFFECT knob for 5s to unlock functions					
EFFECT		MIC		MUSIC	
Menu Display	Function	Menu Display	Function	Menu Display	Function
EFF	Effect Master Volume Control	MIC	Mic Volume Control	MUS	Music Volume Control
ECHO	Echo Effect Control	TF	Treble Frequency Control	TF	Treble Frequency Control
REV	Reverb Effect Control	TRE	Treble Control	TRE	Treble Control
REP	Echo Repeat Times Control	MF	Mid Frequency Control	MF	Mid Frequency Control
DEL	Echo Delay Time Control	MID	Mid Control	MID	Mid Control
REV W	Reverb Width Control	BF	Bass Frequency Control	BF	Bass Frequency Control
REV R	Reverb Depth Control	BAS	Bass Control	BAS	Bass Control
HP	Effect HP Filter	HP	Mic HP Filter	HP	Music HP Filter
LP	Effect LP Filter	FBC	Feedback Suppression Control	SUB F	Subwoofer Frequency Control
				SUB V	Subwoofer Volume Control
Long-press USER button for 5s to save settings					

MK-3 3-in-1 Multi-Functional Amplifier

Rear Panel Overview

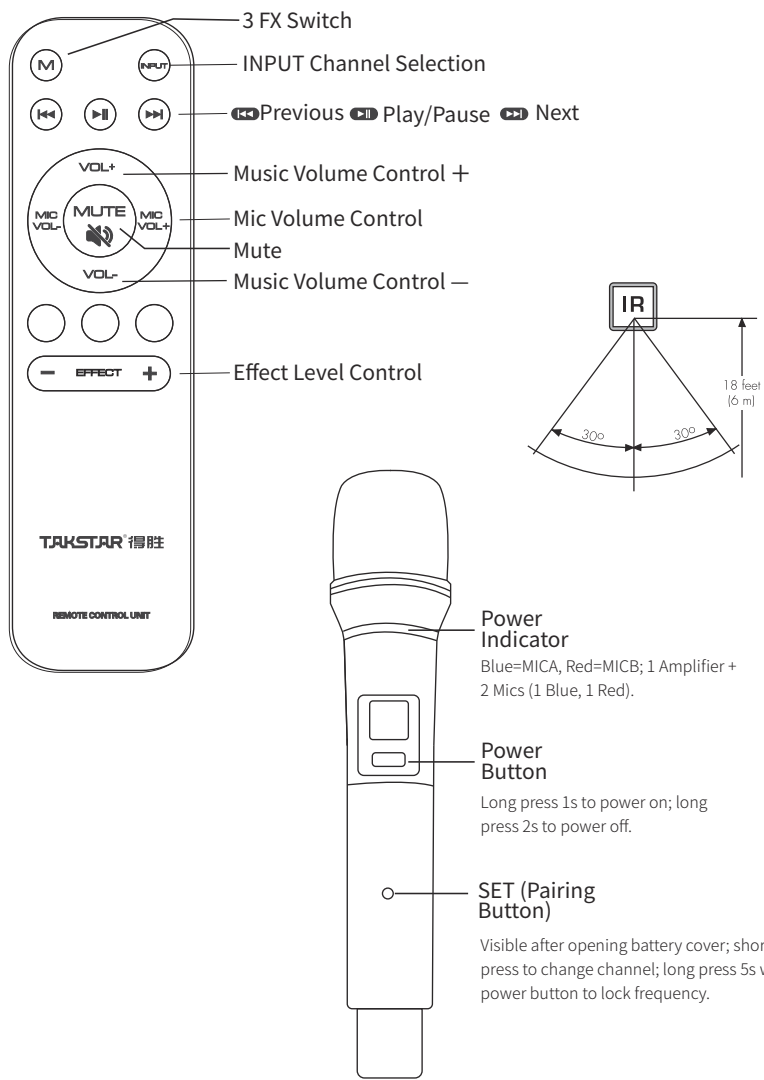


- ① External Wired/Wireless MIC Input 1
- ② MIC 1 Input Gain (Includes Front Panel Mic Gain)
Gain Control (Factory Setting: Middle)
- ③ External Wired/Wireless MIC Input 2
- ④ MIC 2 Input Gain (Includes Built-in Wireless MIC Gain)
Gain Control (Factory Setting: Middle)
- ⑤ Built-in Wireless MIC Antenna Port
- ⑥ PC Software Configuration Port/5V USB Charging Port (For Wireless Mic Charging)
- ⑦ COAX Input
- ⑧ OPT Input
- ⑨ VOD Input
- ⑩ VOD Gain
VOD Input Gain (Factory Setting: Fully Right)
- ⑪ AUX Analog Input (e.g., DVD, PC)
- ⑫ Preamp Stereo Output
- ⑬ Dry Mic Output (for External VOD Voice Control)
- ⑭ Subwoofer Output (for External Active Subwoofer)
- ⑮ Main Speaker Right Channel Output
- ⑯ Main Speaker Left Channel Output
- ⑰ Secondary Speaker Right Channel Output
- ⑱ Secondary Speaker Left Channel Output
- ⑲ Cooling Fan
- ⑳ Power Input Connector

MK-3 3-in-1 Multi-Functional Amplifier

*Impedance: 4Ω or 8Ω for two speakers; 8Ω required for four speakers, otherwise protection will activate.

Remote Control & Microphone



MK-3 3-in-1 Multi-Functional Amplifier

I. Wireless Microphone Operation

1. Power On: While powered off, press the power button for 1s to turn on.
2. Power Off: While powered on, press and hold the power button for 2s to turn off.
3. The microphone will automatically sync frequencies upon power-on, requiring no manual pairing.
4. When using multiple microphone sets simultaneously, set them to separate channels and lock the frequencies to prevent crosstalk.

II. Simple Troubleshooting

1. If one microphone has no sound, produces noise, or intermittent audio:
 - ① Check the two mics' display windows & LED strips: 1 blue MIC A + 1 red MIC B required; 1 amplifier must not use two same-color mics.
 - ② Check if the antenna is properly installed.
 - ③ Move the VOD further away for testing.
 - ④ Replace the batteries and test.
 - ⑤ If the above fails: Switch to other channels, lock frequencies, then test.
 - ⑥ Replace the mic and test (must match blue MIC A or red MIC B).
2. Frequency Lock: In power-off state, press and hold the power button and frequency button simultaneously for 5s. Release when display shows "----"; pairing succeeds after 6s.
3. Frequency Unlock: In power-off state, press and hold the power button and frequency button simultaneously for 5s. Release when display shows "--"; unlocking succeeds after 6s.
4. For both locking/unlocking: Only turn on the corresponding amplifier; keep other unrelated amplifiers off.
5. If the issue persists after the above steps, contact after-sales for inspection and repair.

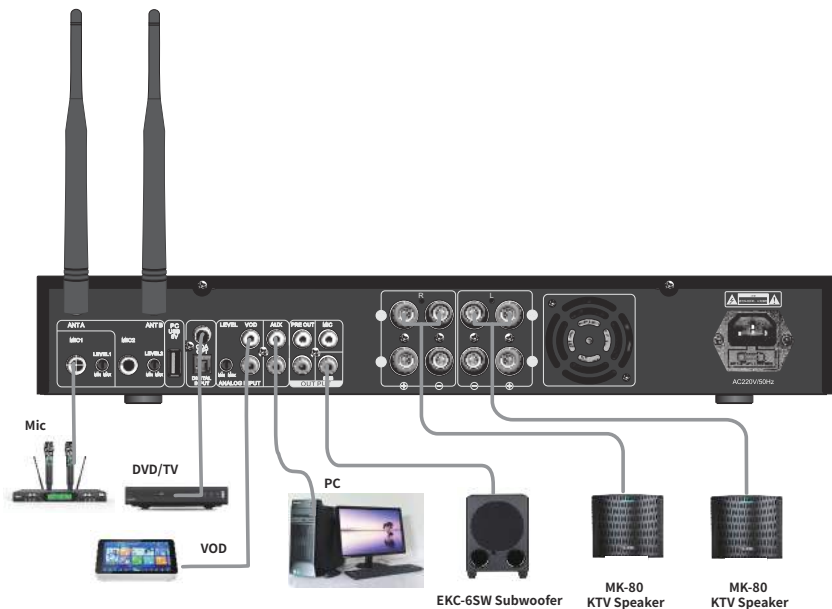
MK-3 3-in-1 Multi-Function Amplifier

■ Operating Instructions

I. Product Connection & Startup

Follow these steps for quick connection and startup. Ensure this unit and all amplifiers are powered off before operation.

1. Connect the product to your system.



2. During operation, set all volumes to minimum.

3. Then power on.

4. When the signal passes through this unit, gradually increase the amplifier volume to achieve the desired listening level while ensuring the amplifier does not clip.

II. Pairing with Mobile Phone via Bluetooth

1. Press the INPUT button to switch the channel to "BLUE IN" mode.

2. Turn on your phone's Bluetooth. Find and select the device named "MK-3" in the search list to pair and connect.

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Note: To properly protect the speakers without compromising performance, it is recommended to adjust the audio system's volume structure and configure the crossover, equalizer, and compressor/limiter settings.

■ 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. 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.
4. The product must, when installed on walls or ceilings, be fixed firmly in place at adequate strength to prevent from falling.
5. Please abide by safety rules during operation. Do not use the product in places prohibited by laws or regulations to avoid accident.
6. 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.

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■ 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 (不含港澳台地区)。

产品服务保证书

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商品: _____ 型号: _____ 购买日期: _____ 年 _____ 月 _____ 日

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