

TAKSTAR®

无线教学扩音器 Wireless Voice Amplifier

用户手册
User's Manual

DA-251



TAKSTAR®

广东得胜电子有限公司

生产基地:广东省惠州市博罗县龙溪镇富康一路2号

电话:400 6828 333 传真:0752-6383950

邮箱:xs@takstar.com

网址:www.takstar.com

GUANGDONG TAKSTAR ELECTRONIC CO.,LTD

Address: Longqiaolu, Longxi, Boluo, Huizhou, Guangdong, 516100, China

Tel: +86 752 6383951

Fax: 86 752 6383950

E-mail: xs@takstar.com

Website: www.takstar.com

广东得胜电子有限公司
GUANGDONG TAKSTAR ELECTRONIC CO.,LTD

Specification

Wireless Amplifier

Frequency Range: 220-270MHz (enjoying more than 40 kinds of frequency spot)

Sensitivity: -80dBm (S/N \geq 30dB)

Mute Mode: Noise Locking

Resonance Interfere Rate: >50dB

False Image Interfere Rate: >50dB

Total Harmonic Distortion: < 1% (1kHz)

Output Power: about 10W

S/N Ratio: >80dB

Frequency Response: 100Hz-12kHz

Input Signal: wired MICX1, wireless MICX1

Speaker: 4 Ω /10W

Power: DC 12V or 10.8V (2Ah Ni-MH battery)

Effective Using Distance: 20m of radius overrun, 40m in the open area;

Weight: 1.1kg

Transmitter:

Frequency Steadiness: \pm 0.005%

Harmonic Rejection: \geq 40dBm

Current Consumption: about 25mA

Operating Voltage: DC 9V

产品介绍

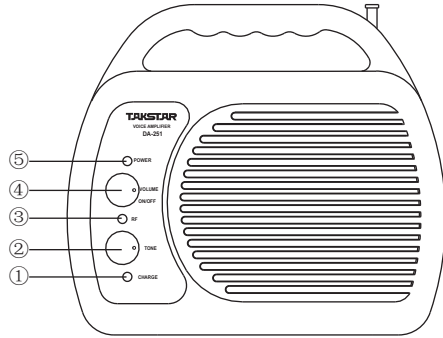
TAKSTAR DA-251无线教学扩音器，是专为教学、公众演讲等小型活动而设计的。具有高保真音色、频率响应宽广、较低的失真度、性能稳定、低噪声、低功耗等特点。设计采用VHF（220-270MHz）频段，有40多种以上的频点让你选择，同时采用双重供电，特设低电压保护功能。外观设计美观流畅，安装、携带方便，操作简单。是你教学、户外演讲、公众传播等活动的好帮手。

包装清单

扩音器	一台
发射器	一只
12V/1A电源输出器	一只
头戴麦克风	一只
领夹麦克风	一只
9V电池	一个
输出转换线	一条
说明书	一份
保证书	一份

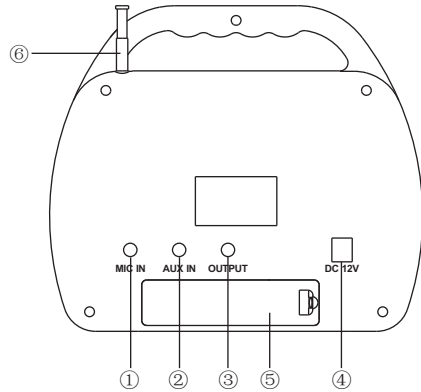
扩音器前面板功能说明

- ① 充电指示灯
- ② 音调旋钮
- ③ 射频信号灯
- ④ 带开关音量旋钮
- ⑤ 电源指示灯



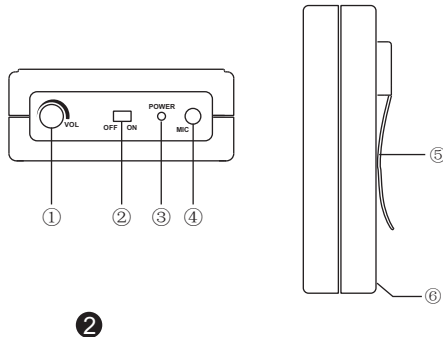
扩音器后面板功能说明

- ① MIC IN 话筒输入插孔
- ② AUX IN 声音输入
- ③ OUTPUT 输出插孔
- ④ DC 插座
- ⑤ 电池仓
- ⑥ 天线



无线麦克风发射功能说明

- ① 发射器音量调节
- ② 电源开关
- ③ 电源指示灯
- ④ 麦克风输入插孔
- ⑤ 发射器固定夹片
- ⑥ 发射器电池仓



②

Simple Method In Case Of Trouble

Phenomena	Elements
The receiver is turned on, but the indicator does not light	The battery power is running off, please recharge the inside battery in time.
The "RF" indicator lights while speaking, but no output signal is available	1. Please turn on the power switch of transmitter. 2. Please adjust the volume control of both transmitter and amplifier to the proper position.
When the using distance gets shorter, the signal becomes unsteady	1. Pull out the antenna and check if the batteries are running off, replace them with fresh ones or recharge them. 2. If the receiver is put in an inappropriate position, ie. on the ground or at the corner of the wall or in a strong electromagnetic field, please change its position.
Sound quality gets worse	1. The battery of both amplifier and transmitter is running off. 2. If there is same frequency signal problem: do not use two machines with same frequency at the same time in the same area. (The distance must be at least 80m between two machines with same frequency)

If there are any other troubles or problems observed, please do not open and repair it by yourselves. Please, first contact our distributor or directly come back to us. We will try our best to provide you with professional and efficient service.

⑪

Cautions

1. The system can be powered either by DC 12V 1A or by the batteries inside.
2. The distance must be 80m between the two voice amplifiers with the same frequency in order to avoid interference.
3. When howling occurs during operating, please try adjust the system according to the suggestions below:
 - A. Adjust the position or direction of the amplifier.
 - B. Enlarge the distance between the sound source of the amplifier and transmitter.
 - C. Adjust the tone knob to the appropriate degree.
 - D. Adjust the volume control knob to reduce the volume.
4. If the sound of the system suddenly breaks out while operating, first Please check the power indicator. If it is in red state or fade out, that means the battery is running off. Please recharge it in time.
5. When the battery is running off, turning on the power switch will cause the power indicator gets into the red state, which means it cannot be turned on. Please recharge it in time.
6. When not using the system, please turn off the power of both the transmitter and the amplifier to reduce the power consumption.
7. When not using the system for a long time, please fully charge the batteries of the amplifier. The batteries should be recharged at least every half a year for maintenance in good condition.

具体使用方法说明

1. 扩音器在使用时请先将机内的内置电池充电，充电时，首先将电源输出插头插入扩音器后背的DC插座（4）内，再将电源输出器插入市电AC 220V/50Hz插座上，电池开始充电。充电指示灯呈红色闪烁状态，电池电量充满时，充电自动停止，充电指示灯呈绿色。
2. 使用时，将带开关音量旋钮向右旋转，听到“嘀”一声，表示开机，如果继续向右旋转，扩音器音量越大，反之音量越小，直至关机；开机时，电源指示灯亮蓝色。当扩音器音量变小时，说明电池电量已不足，请及时给电池充电（扩音器可边充电边继续使用），如不充电继续使用扩音器会因自动保护电池过放电而自动关机，此时，电源指示灯呈红色，延时15秒左右，指示灯自动熄灭，此时，请将电源开关关闭。
3. 使用无线发射器时，将扩音器天线拉起，以达到理想效果。有效距离达20米。发射器与扩音器之间的距离应保持在1米以上，以免产生啸叫。
4. 将麦克风与音源调整到适当的距离，并调整扩音器的带开关音量旋钮及音调旋钮以达到良好的效果，并可开始使用。
5. 当需要更大输出功率时，将外接功放连接于扩音器后背的OUTPUT输出插孔即可。
6. 教学时可同步录音，将扩音器OUTPUT输出插孔连接至录音机MIC IN话筒输入插孔即可。
7. MIC IN话筒输入插孔：将头戴或领夹麦克风插入此孔，进入待机状态。
8. AUX IN声音输入：声音输入，将带有音乐源的Φ3.5插头插入此孔，你便可以欣赏到美妙的音乐。

注意事项说明

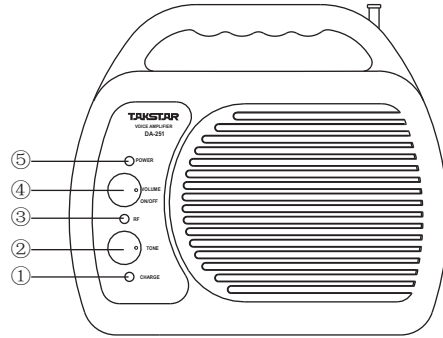
1. 本机使用时，可直接使用扩音器内的内置电池，同时也可使用DC 12V 1A的直流电源工作。
2. 频率相同的两台扩音器同时使用时，应保持80米以上的距离，以免信号相互干扰。
3. 使用中如产生啸叫，可采用下列方法改善；
 - A. 调整扩音器的位置或方向。
 - B. 将扩音器音源与发射器之间的距离隔远。
 - C. 调整音调旋钮使音调至适当程度。
 - D. 调整带开关音量旋钮，使音量降低。
4. 本机在使用过程中，如果突然中断没有声音时，检查扩音器电源指示灯是否亮红色或已熄灭。如果呈红色或已熄灭时，说明电池电量不足，需及时充电。
5. 本机电池电量不足时，打开电源开关，电源指示灯亮红色或不亮时，表示已无法开机，请及时充电。
6. 不使用时，请将发射器与扩音器的电源关闭，以减少电量的消耗和保持充电电池的寿命。
7. 长时间不使用时，请将发射器电池取出，避免电池漏液损坏发射器。长期不使用时，请将扩音器内的内置电池充满，至少半年充电一次，以保证机体内充电电池的良好状态。

Detailed Operating Instruction

1. Please make sure the batteries inside the amplifier are charged before use. Connect the jack of the power adaptor with DC Input socket of the receiver, plug the AC connector of the power adaptor into AC 220V/50Hz socket, then the batteries start being charged. The charging indicator will flash in red while charging. The green light indicates that the battery is fully charged.
2. Turn the knob right, the sound “di” indicates the receiver is power-on, and the power indicator lights in blue. Adjusting the knob to the right will increase the voice, and vice versa till it is turned off. When the volume is getting lower, that means the battery is running off. Please recharge it in time. It is possible to still use it while charging. When not charged, the power indicator will turn red and the device will be turned off automatically 15 second later due to its self-protecting function for over discharging. So please turn off the device before it blacks out.
3. When using the wireless transmitter, please pull the antenna of the amplifier for the best result. The effective working distance is 20m. Keep the 1m distance between the transmitter and the receiver to avoid howling.
4. Before using, please adjust the appropriate distance between the microphone and the sound source, as well as the volume and the tone knob for getting best sound quality.
5. For more audio output, please just connect the external power amplifier with the amplifier audio output socket OUTPUT.
6. For recording while teaching, please just use the cable to connect the audio output socket of the amplifier with the Mic In Socket of the recorder.
7. MIC IN: Plug the headset mic into the MIC Input socket. At this moment the device is at the stand by state.
8. AUX IN: Audio Input Socket for connection with the sound source by the 3.5mm jack for enjoying music indoors.

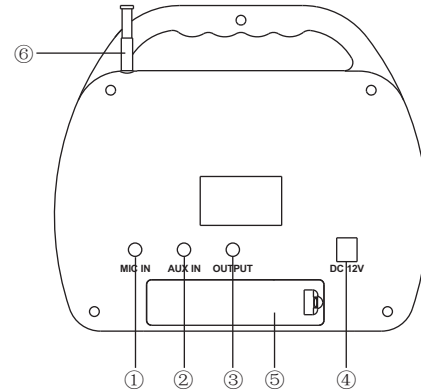
Amplifier Front Panel Functional Introduction

- ① Charging Indicator
- ② Tone Control
- ③ RF Indicator
- ④ Volume Control Knob with Power Switch
- ⑤ Power Indicator



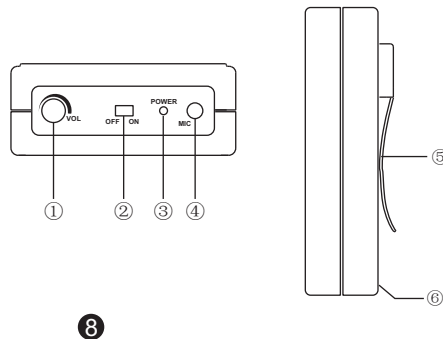
Amplifier Rear Panel Functional Introduction

- ① MIC IN Socket
- ② AUX IN Socket
- ③ OUTPUT Socket
- ④ DC Socket
- ⑤ Battery Compartment
- ⑥ Antenna



Wireless Microphone Transmitter Functional Introduction

- ① Volume Control Knob
- ② Power Switch
- ③ Power Indicator
- ④ Microphone Input Socket
- ⑤ Belt-clip
- ⑥ Battery Compartment



8

简单故障处理

故障现象	处理方法
打开扩音器电源开关指示灯不亮	电池电量不足，请及时给扩音器内置电池充电。
讲话时“RF”灯亮，但系统无声	1. 请将发射器的电源开关打开。 2. 请将扩音器和发射器的音量旋钮调大到适当位置。
使用距离变短，信号不稳定	1. 扩音器天线未拉出、麦克风电池电量不足或扩音器内的内置电池电量不足，请更换电池或充电。 2. 扩音器位置放置不对，例如：放在地上或墙角，周围有强烈的电磁场干扰，应远离电磁场。
音质变差	1. 扩音器和发射器电量不足。 2. 周围有同频率的高频信号，切勿将两台同频率的机器同时同地使用。（应相隔80米以上）

若发生故障或本说明书未提出的问题，切勿自行拆开修理，请及时与经销商或本公司联系，我们将竭诚为您服务。

5

技术参数

无线扩音器:

频率范围: 220-270MHz (40多种以上的频点)

接收灵敏度: -80dBm ($S/N \geq 30\text{dB}$)

静音方式: 杂讯锁定

谐波干扰比: $>50\text{dB}$

假像干扰比: $>50\text{dB}$

失真度: $< 1\%$ (1kHz)

输出功率: 约10W

信噪比: $>80\text{dB}$

频率响应: 100Hz-12kHz

输入讯号: 有线MicX1 无线MicX1

喇叭: $4\Omega/10\text{W}$

电源: DC 12V或10.8V (2Ah 镍氢电池)

使用有效距离: 半径超过20m, 空旷地带可达40米

重量: 1.1kg

发射器:

频率稳定性: $\pm 0.005\%$

谐波抑制: $\geq 40\text{dBm}$

消耗电流: 约25mA

使用电压: DC 9V

Products Introduction

TAKSTAR DA-251 wireless voice amplifier due to its simple but light and modern design performs remarkably while teaching, giving speeches and small-scale activities. It features high fidelity tone quality, wide frequency response range with low level of distortions, stable performance, low self-noise and economical power consumption. The VHF system (220-270MHZ) has more than 40 kinds of frequency spots to choose. Furthermore, the system adopts the intelligent power supply and special low voltage protection function. It is smart & smooth in shape and easy to carry and operate, which makes it most suitable for such applications as teaching and public addresses.

Packing List

Voice Amplifier	1pc
Transmitter	1pc
12V/1A Power Adaptor	1pc
Headset Microphone	1pc
Tie-clip Microphone	1pc
9V Battery	1pc
Output Cable	1pc
User's Manual	1copy
Warranty Card	1copy