

TAKSTAR® 得胜



TS-8807PP | 无线麦克风
Wireless microphone

使用手册 User Manual

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■ 前言

尊敬的用户：

感谢您选购得胜TS-8807PP无线麦克风，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

- 采用TUNER分集式技术，有效改善接收死角，提高接收稳定度；
- 特设频道ID码识别功能，有效防止外界或频道之间串扰出现噪音；
- 双通道UHF频段设计，比传统的VHF频段干扰更小，传输更可靠；
- 接收机具备一键自动扫频功能，能自动快速选取无干扰频道使用；
- 红外对频方式，只需轻松一按，即可完成发射器与接收器频道同步，使用方便；
- 设有SQ调整功能，用户可根据使用环境调整灵敏度，提高抗干扰能力或接收距离；
- 具备独立的平衡（XLR）及非平衡（6.3mm）的混合输出，方便设备连接；
- 发射器设有低电指示状态，方便用户有效识别；
- 设有低切/低衰功能，有效减少环境噪音或舞台震动带来的影响。

■ 适用范围

会议、培训、教学等场所

■ 包装清单

接收机	1个
5号电池	4节
发射器	2个
头戴麦克风	2个
领夹麦克风	2个
接收天线	2支
音频线	1条
适配器	1个
角码	1对

■ 技术参数

系统指标

频率范围：470~960MHz
(分段设计)
调制方式：宽带FM
静音控制：导频ID码
可调范围：50MHz
信道数量：200
信道间隔：250KHz
频率稳定度：±0.015%
动态范围：≥100dB A+
调制频偏：±48KHz
频率响应：50Hz~18KHz
综合信噪比：≥105dB A+
综合失真：≤0.5% (at 1KHz)
工作温度：-20°C~+50°C
使用距离：50米(空旷地带)

接收机

供电：DC≐12V/0.5A
频率输出方式：独立平衡 (XLR插座)
与混合 (6.3mm插座)
无线接口：TNC/50Ω阻抗
灵敏度：≤-90 dBm(接线测试)
音频输出最大电平：2.0V/RMS(at
1KHz THD=1%)

尺寸 (LxWxH)：430x190x51mm
重量：2480g

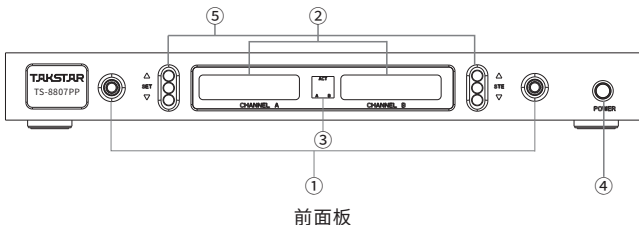
发射机

输出功率：≤10mW
供电：两节5号电池
尺寸 (LxWxH)：100x64x24.5mm
重量：80g

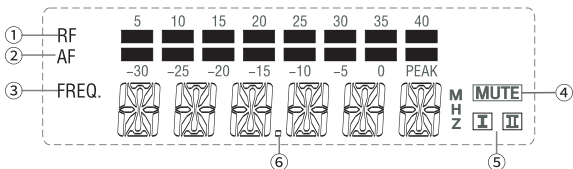
注：以上数据由得胜实验室测试得到，并拥有最终解释权！

■ 功能示意

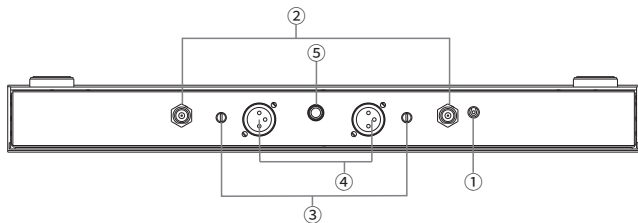
接收器



- ① 音量调节旋钮：调节输出音量的大小；
- ② 液晶显示：显示对频工作状态、频率、接收信号电平等信息；
- ③ 红外对频窗口：配合SET键，将频率参数传至发射机；
- ④ 电源键：开启关闭机内的电源供应；点按开启电源开关时，液晶显示屏亮；
- ⑤ 功能按键：用于频率调整、对频、扫频等操作；



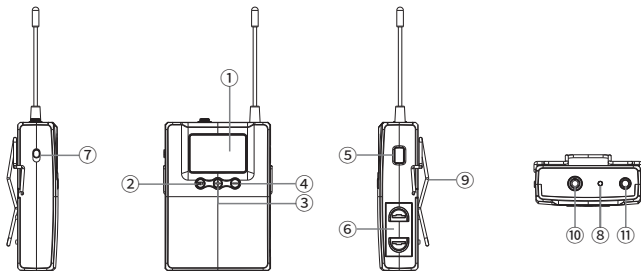
- ① 8级射频电平显示：显示接收信号强度；
- ② 8级音频电平显示：显示声音信号强度；
- ③ 频率菜单显示：FREQ亮时，显示当前工作频率；
- ④ 静音显示：MUTE亮时，表示机器处于静音状态；
- ⑤ 6位字符显示：显示当前信息；
- ⑥ 通道选择显示：显示当前使用通道；



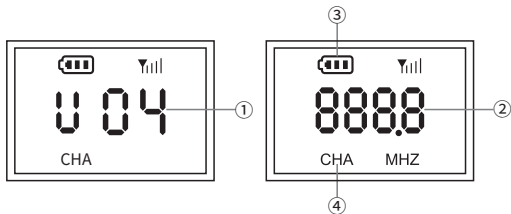
背面板

- ① 电源插座：连接DC \approx 12V电源至输入插座；插座的中心电极连接正电压；
- ② 天线连接座：连接外置天线，增加使用距离；
- ③ 灵敏度调节：调节的范围为0-40dBm，该数值越小，则灵敏度越低，距离越近，但抗干扰能力更强。反之，该数值越大，灵敏度越高，距离越远；
- ④ 音频平衡输出：采用“XLR”型插座，两通道信号分别输出；
- ⑤ 音频非平衡输出：采用“P”型插座，两通道混合信号分别输出；

发射器



- ① 显示屏：显示工作频率、电池电量等信息；
- ② “SET”键：长按SET键开启增益调节模式，停止操作2秒后，自动关闭调节模式；建议头戴麦克风增益档位为4，领夹麦克风增益档位为8；
- ③ “+”增加键：在增益调节模式下，短按对应增加MIC增益；
- ④ “-”减小键：在增益调节模式下，短按对应减小MIC增益；
- ⑤ 电源开关键：长按两秒开关机，循环点按开启或关闭静音功能；
- ⑥ 电池仓：用于安装5号电池；
- ⑦ 低切开关：拨到“ON”位置，可衰减150Hz以下的低频环境噪声（如交通声、空调声、震动声等），拨到“OFF”恢复正常拾音；
- ⑧ 静音指示灯：关闭静音时，常亮绿灯，开启静音时，常亮红灯；
- ⑨ 背扣：用于将发射器扣于腰带或裤腰上使用；
- ⑩ 麦克风插座：用于连接3.5mm接口的麦克风；
- ⑪ 外置天线：1/4波长天线，增强信号发射距离；



发射器显示屏

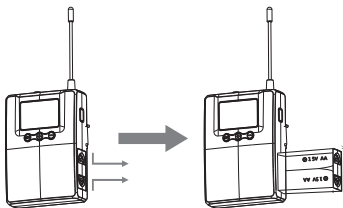
- ① 增益调节显示：增益范围0~8, 默认值是4；
- ② 工作频率：显示当前发射器工作频率；
- ③ 电池电量：以电量格数多少来表示当前发射器电池电量，电量严重不足时，电池符号闪烁；
- ④ 通道：显示当前使用通道；在对频状态下，连接A发射器显示CHA，连接B发射器显示CHB；

■ 使用说明

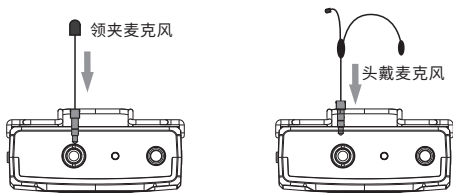
1. 开机前，先将接收机音量调小，然后按接收机电源按钮开接收机，电源导通后，液晶显示器背景灯亮，所有字符全部显示，随后主显示栏显示接收机频道、频率、自动对频状态；
2. 观察接收器液晶显示屏的RF和AF电平表，若有强的干扰，应调换频道避开干扰点；
3. 长按2秒发射器电源开关键，发射器开机，接收机对应频道的RF电平表信号强度点亮；
4. 将发射机红外接口对准接收机红外发射窗口，与对应接收机通道（CHA或CHB）对频成功时，发射机显示当前频率小数点后一位；
5. 根据实际情况，适当的调节接收器的麦克风输出音量大小；
6. 长按3秒发射器电源开关键，接收器关机；长按2秒发射器电源开关键，发射器关机。

发射器安装

1. 安装电池：同时按压电池仓伸缩键取出电池仓；将2节5号电池按电池仓标明的正负极性安装，注意电池极性不要装反；将电池仓推入发射器电池卡座内，直到电池仓伸缩键“哒”的一声扣紧到位；如下图A
2. 将头戴麦克风或夹领麦克风插头插入发射器的“MIC”插座，并锁紧固定；如下图B



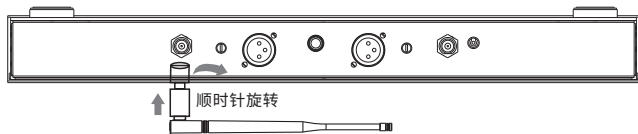
图A



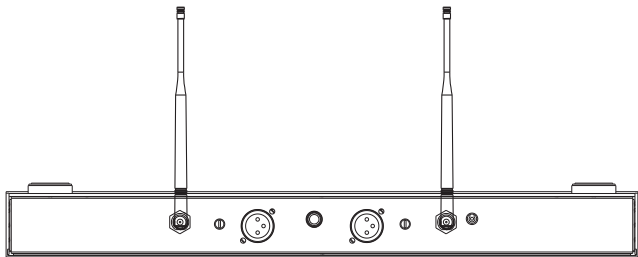
图B

接收器安装

1. 安装天线：将外置天线对准接收器天线连接座，顺时针旋转直至旋紧；如下图C；
2. 将天线印有工作频率一面朝上，折叠天线，使之与接收器呈90°角；如下图D；



图C



图D

系统锁定及解锁

锁定：在图①初始界面下长按“SET”键3秒显示图②界面，所有功能键将被锁定（电源开关键除外）；

解锁：长按“SET”键3秒，显示图③界面可解锁；

频率调节

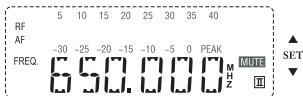
1. 手动频率调节

在图①初始界面下，短按“▲”键与“▼”键可调节当前使用的频率，当已调整到需要使用的频率时，停止短按，频率跳动停止，频率调整成功。打开发射机电源，将发射机上的红外接收窗口“IR”与接收机上的红外发射窗口。“ACT”成直线相对(对频距离可选择在10cm-50cm之间)，此时点按“SET”键，屏幕窗口显示图对频界面后显示对频搜索信息，对频成功后将自动跳转至频率信道显示界面。如果对频不成功可重新点按“SET”键继续对频，直至对频成功。

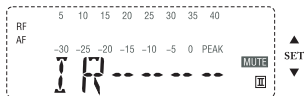
2. 自动扫描操作

在图①界面的状态下，长按3秒对应通道的“▲”键，接收机的对应通道进行自动扫描状态，频率会跳动，当扫描到干净频点时，接收机会自动发出红外对频状态，如图②。这时打开发射机，将“IR”窗口对准“ACT”即可。

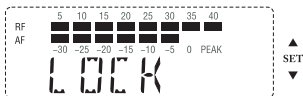
(注意：在多套使用时，前面对上频率的需打开发射机，在对下一套接收机进行自动扫描)



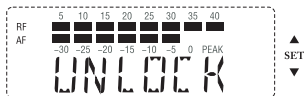
图①



图②



图③



图④

■ 注意事项

1. 接收机采用全向天线时，天线离墙体（特别是金属体）应有0.5m距离；
2. 接收范围和很多因素相关，变化很大，在传输方向无大型金属件阻挡，可以获得更好的传输效果；
3. 如果接收条件不够理想，可以采用延长线，外接高增益天线，甚至天线放大器，可以达到非常明显的增距效果；
4. 当接收机面板正对使用方向时，或接收机内置在金属箱体内时，将天线接于前面板会有更好的接收效果；
5. 产品使用中出現红灯闪烁时，表示电池电量不足，需更换电池；
6. 若发射器长期不适用时，请从底座内取出电池，以免电池漏液而损坏麦克风；
7. 正确的调整发射器咪头与嘴的距离，太近会引起调制过大而产生信号失真，太远的灵敏度使调制度不够，将会降低信噪比。建议嘴巴距咪头约5~15cm。

■ 故障处理

故障现象	故障原因
发射器、接收机无指示	发射器电池耗尽，接收机电源未接好
接收机无射频信号	收发不同频或超出接收范围
有射频信号，但无音频信号	发射器麦克风未接入或接收机静噪太深
音频信号背景噪音太大	发射调试频偏太小，接收输出电频低，也许有干扰信号
音频信号失真	发射器的咪头与嘴巴距离太近，接收机输出电频过高
使用距离较短，信号不稳定	接收机静噪太深，接收机天线设置不当，周围有强电磁干扰

■ 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设备音量大小，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. 若产品需要使用可拆装电池时，严禁使用外壳绝缘材料破损的电池；请不要为非充电电池充电；
4. 废弃电池需放入指定的分类垃圾桶，不可作为儿童玩具或直接丢弃，以免造成安全隐患或影响环境；
5. 超过一周不使用本产品时，请取出麦克风内电池，以免电池漏液导致产品损坏；
6. 本产品及附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，雨淋、进水、过度碰撞、抛掷、振动本机及覆盖通风孔，避免损坏其功能；
7. 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；
8. 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产品，以免导致意外事故；
9. 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。

■ 关于图标含义解释



该图标表示产品所标配的适配器符合“中国强制性产品认证”3C认证要求。



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，请有效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。

■ 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)
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。



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■ Product

Dear Customer,

Thank you for purchasing TS-8807PP wireless conference microphone. Please read the user manual carefully before operation and keep it for reference in the future. If you have any question or suggestion, please contact our local dealer.

■ Features

- TUNER diversity technology effectively improves the problem of dead point and promote the receiving stability.
- ID code function effectively prevent from the noise due to interference.
- Dual CH UHF frequency band design, more reliable transmission and low interference than VHF.
- Press one button of receiver to scan the non-interference frequency band automatically and quickly.
- Infrared matching, press to match transmitter and receiver, convenient operation.
- SQ function to adjust sensitivity according to actual environment to improve anti-interference capability and receiving range .
- Independent bal XLR and unbal (6.3mm) combo out, convenient connection.
- Low power indication of transmitter, intuitive display .
- Low cut/low attenuation function effectively reduces ambient noise and vibration noise.

■ Application

Conference, training, teaching

■ Product content

Receiver	1 pc
AA battery	4 pcs
Transmitter	2 pcs
Headset mic	2 pcs
Lavalier mic	2 pcs
Antenna	2 pcs
Audio cable	1 pc
Adapter	1 pc
Corner	1 pc

■ Specification

System Specification

Frequency Range: 470~960MHz (frequency band design)

Modulation: FM

Mute Control: frequency guide ID code

Adjustable Range: 50MHz

Frequency Band Qty: 200

Frequency Band Interval: 250KHz

Frequency Stability: $\pm 0.015\%$

Dynamic Range: $\geq 100\text{dB A+}$

Modulation Deviation: $\pm 48\text{KHz}$

Frequency Response: 50Hz~18KHz

S/N Ratio: $\geq 105\text{dB A+}$

Distortion: $\leq 0.5\%$ (at 1KHz)

Operation Temperature: $-20^{\circ}\text{C}\sim+50^{\circ}\text{C}$

Operation Range: 50m (open area)

TS-8807PP Wireless microphone

Receiver

Power Supply: DC=12V/0.5A

Frequency Out: independent bal and combo

Wireless Connector: TNC/50Ω impedance

Sensitivity: ≤ -90 dBm (wiring test)

Audio Out Max Level: 2.0V/RMS(at 1KHz THD=1%)

Dimension (LxWxH): 430x190x51mm

Weight: 2480g

Transmitter

Output Power: ≤ 10 mW

Power Supply: two AA batteries

Operation Time: ≥ 8 h

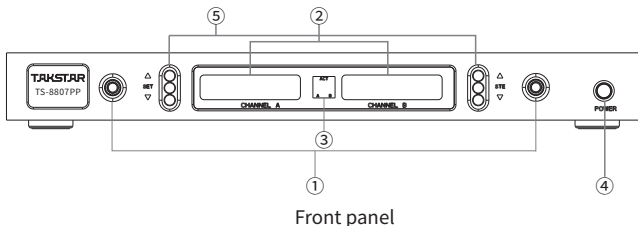
Dimension (LxWxH): 100x64x24.5mm

Weight: 80g

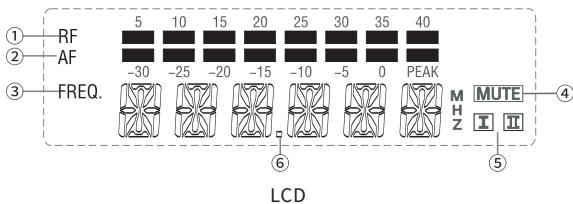
Note: the above data are obtained from the test of Takstar laboratory, and Takstar has the right of

Function instruction

Receiver

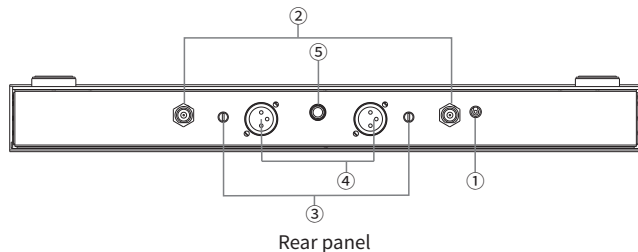


- ① Volume knob: adjusting volume level.
- ② LCD: displaying matching frequency status, frequency, receiving signal level.
- ③ Infrared matching window: used with SET button to send frequency parameter to the transmitter.
- ④ Power switch: turning on/off the wireless mic. Press the power switch and LCD lights up.
- ⑤ Function button: used for frequency adjusting, frequency matching, scanning, etc.



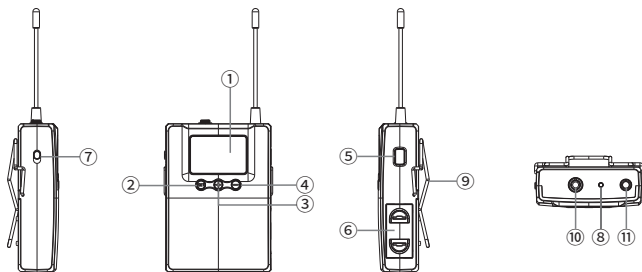
- ① RF level display: 8 levels in all, displaying receiving signal level.
- ② Audio level meter: 8 levels in all, displaying audio signal level.

- ③ Frequency menu display: when FREQ lights up, it displays the current operation frequency.
- ④ Mute display: when MUTE lights up, this means it is in mute status.
- ⑤ 6 character display: displaying the current information.
- ⑥ Channel selection display: displaying the current operation channel.



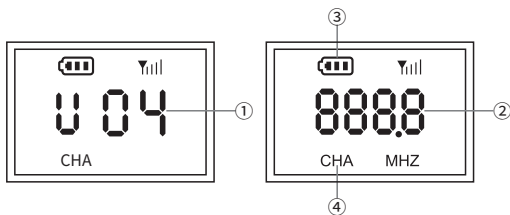
- ① Power socket: connecting DC \approx 12V with the input connector. The central pin connects with + voltage.
- ② Antenna connector: connecting with external antenna to increase operation range.
- ③ Sensitivity adjustment: adjusting range 0-40dBm. The smaller the number is, the lower the sensitivity and the closer operation range is, but the anti-interference capability is stronger, and vice versa.
- ④ Audio bal out: XLR connector, dual channel output.
- ⑤ Audio unbal out: type P connector, dual channel combo output.

Transmitter



- ① LCD: displaying operation frequency, battery power, etc.
- ② “SET” button: Keep pressing the “SET” button to turn on the gain adjustment mode. After stopping the operation 2 seconds, the Gain Adjustment Mode will be automatically turned off. It is recommended to adjust the mic gain level to 4 and lavalier gain level to level 8.
- ③ “+” button: in Gain Adjustment Mode, press “+” button to increase MIC Gain.
- ④ “-” button: in Gain Adjustment Mode, press “-” button to decrease MIC Gain.
- ⑤ Power button: keep pressing the Power Switch 2 seconds to turn On/off, and press it shortly to turn on/off the mute function.
- ⑥ Battery compartment: used to load AA battery.
- ⑦ Low-cut switch: set it to ON to filter LF ambient noise below 150Hz(the noise of transportation, air conditioner, vibration, etc), Set it to OFF to pick up normally.
- ⑧ Mute LED: it lights up green. When turn off the mute function, it lights up red.

- ⑨ Belt clip: used to pack the transmitter on the waist belt.
- ⑩ Mic connector: used to link with mic of 3.5mm connector.
- ⑪ External antenna: 1/4 wave length antenna to increase the signal transmission range.



Transmitter display

- ① Gain range display: gain range 0~8, default value 4.
- ② Operation frequency: displaying the current transmitter operation frequency.
- ③ Battery power: displaying the transmitter power. When the power is insufficient, the battery symbol flashes.
- ④ Channel: displaying the current operation channel. In matching status, CHA means channel A and CHB means channel B.

■ Operation instruction

1. Before turning on, set the receiver volume to minimum, and then turn on the receiver. LCD lights up and displays all characters and receiver Channel/frequency/matching status.
2. Watch the RF/AF level meter. If there is strong interference, change the channel to avoid interference.
3. Keep pressing the transmitter power switch for 2 seconds to turn on. RF level meter of relative channel of the receiver lights up.
4. Point the transmitter infrared connector to the receiver infrared window. When receiver CHA/CHB is matched successfully, the transmitter displays one number after the decimal point of the current frequency.
5. Adjust the receiver mic out volume to proper level according to actual situation.
6. Keep pressing the transmitter power switch for 3 seconds. Turn off the receiver. Keep pressing the transmitter power switch for 2 seconds to turn off.

Transmitter installation

1. Battery installation: press the battery compartment button and take out the compartment. Load two AA batteries in the compartment according to correct polarity. Push the battery compartment in fully. Refer to the figure A below:
2. Connect the headset mic or lavalier with the transmitter MIC connector well. Refer to the figure B below:

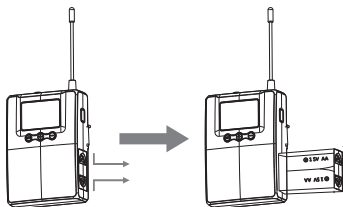


Figure A

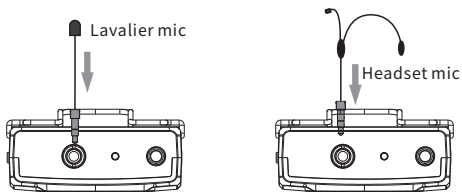


Figure B

Receiver installation

1. Antenna installation: connect the external antenna with the antenna connector of receiver, and turn it clockwise fully. Refer to figure C below:
2. Put the side marked with frequency of antenna upward. Fold the antenna to form a 90° angle with the receiver. Refer to the figure D Below.

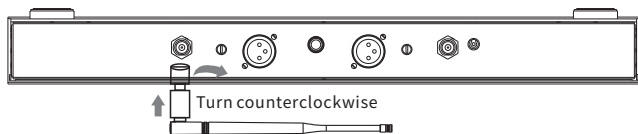


Figure C

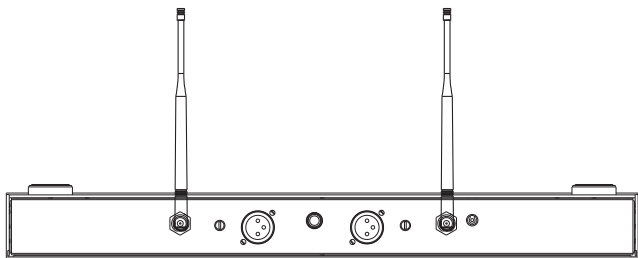


Figure D

System lock and unlock

Lock: in the initial interface of figure ①, keep pressing “SET” button for 3 seconds, it displays the interface in figure ②. All the function buttons are locked (except power switch).

Unlock: keep pressing “SET” button for 3 seconds to unlock. Refer to figure ③.

Frequency adjustment

1. Adjusting manually

In the initial interface of figure ①, press “▲” or “▼” button to adjust the current operation frequency. When it is adjusted to the wanted frequency, stop pressing. The frequency stops changing. This means the frequency is adjusted successfully. Turn on the transmitter. Point the infrared window IR of transmitter to the infrared window ACT of the receiver in a line (10cm-50cm range). Press SET button. The screen displays the matching information. After the matching is successful, the screen displays frequency channel interface. If the matching fails, press SET button again for matching till it is successful.

2. Auto scanning operation

In the status of figure, keep pressing “▲” button for 3 seconds, the relative channel of receiver scans automatically, and the frequency changes. When it scans to the frequency without interference, the receiver has the matching status information. Refer to figure ②. At this time, turn on the transmitter, point IR window to the ACT window. (Note: when multiple set are used, turn on the transmitter for the matched receiver, then it scans for the next receiver.)

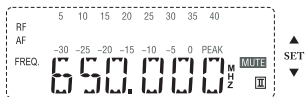


Figure ①

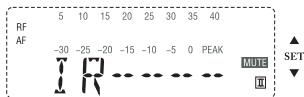


Figure ②

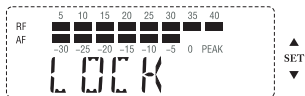


Figure ③

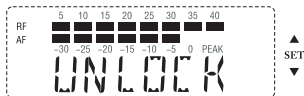


Figure ④

■ Caution

1. If the omni-directional antenna is used for the receiver, keep the antenna 0.5m away from the wall (especially metal object).
2. The receiving range is relative to many factors. If there is no big metal part in the transmission direction, the transmission effect is better.
3. If the receiving condition is not so good, you can use the extension cable and external high gain antenna, or even antenna amplifier to improve the receiving effect.
4. If the receiver front panel is facing to the operation direction or the receiver is kept in the metal box, put the antenna to the front panel for better receiving effect
5. Duing operation, if the transmitter has the LED lights red, this means the low power voltage. Please replace battery in time.
6. If the transmitter will not be used for a long time, take the battery out to prevent from microphone damaged.
7. Correctly adjust the distance from transmitter cartridge to the mouth. If the distance is too close, it leads to too much modulation and signal

■ Trouble shooting

Problem	Reason
Transmitter/receiver have no indication	Transmitter battery is used up. Receiver power supply is not connected well.
Receiver has RF signal	Different receiving and transmitting frequency or out of the receiving range
There is RF signal, but no audio signal	Transmitter mic is not linked or too much cell phone SQ
Too loud background noise	Transmitting modulation deviation is too small, or too low output level or there is signal interference
Audio signal distortion	Transmitter cartridge is too close to your mouth or receiver output level is too high
Short operation range, unstable signal	Too much receiver SQ or improper receiver antenna setting or strong magnetic interference

■ Safety instruction

To avoid electric shock, over temperature, catching fire, explosion, mechanical risk and hurt or property loss caused by improper use, please read the following items carefully before operation:

1. Before operation, make sure that the system power matches with the equipment. Adjust the volume to proper level during operation. Do not operate at high volume level to avoid hearing loss.
2. If abnormal phenomenon (smoke, abnormal smell) happens, please turn off the power witch and disconnect the power plug with power socket, and send the product to local dealer for maintenance.
3. Using battery of broken insulation material is forbidden to avoid short circuit. Please do not charge the non-rechargeable battery.
4. Put the waste battery into classification dustbin rather than used as toy by children or discarded directly to avoid potential changer or affection the environment.
5. If you don't use the transmitter for more than a week, please take out the battery to avoid product damage due to battery leakage.
6. The product and accessories should be put in dry and ventilated place rather than humid or dusty environment. Prevent the product from fire, liquid, rain, water, over colliding, throwing, vibrating, vent hole covered to avoid function destroyed.
7. When the product needs to be installed on wall or ceiling, please fix it tightly to avoid dropping risk.
8. Please abide by safety rules during operation. Do not use the product in the place prohibited by regulation or law to avoid accident.
9. Do not disassemble or repair the product by yourself to avoid hurt. If you have question or need service, please contact the local dealer.

■ The meaning of Icon



This icon indicates that the adapter of the product meets the 3C certification requirements of "China Compulsory Product Certification".



This symbol indicates that according to WEEE Directive (2012 / 19 / EU) and national laws, this type of waste will have potential harmful substances, which may have a negative impact on the Environment and human health, so this product should not be disposed together with your household waste, and should be handed over to the authorized electrical and electronic equipment (WEEE) recycling station for recycling. At the same time, when you handle this product correctly, it will help the effective use of natural resources. For more information on where you can place your waste recycling equipment, please contact your local city office, Waste Management Bureau or household waste treatment service.

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)。

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姓名: _____ 电话: _____ 地址: _____

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

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