

# TAKSTAR® 得胜



## TS-8807HH

### UHF 无线麦克风

### UHF Wireless Microphone

使用手册 | User Manual  
V3.0

## ■ 前言

尊敬的用户：

感谢您选购得胜TS-8807HH UHF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或使用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

- 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声
- 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，即可完成发射机与接收机频道同步，使用方便
- 接收设有SQ调整功能，发射具备高/低功率切换，用户可根据使用环境调整灵敏度，提高抗干扰能力或使用距离
- 具备独立的平衡（XLR）及非平衡（6.3插座）的混合输出，方便设备连接
- 接收、发射均设有按键锁定功能，防止使用误操作

## ■ 包装清单

接收机.....	一台
手持式麦克风.....	两支
音频传输线.....	一条
电源适配器.....	一个
天线 .....	两支
角码 .....	一套
1.5V 五号电池 .....	四节
使用手册 .....	一份

## ■ 适用范围

会议、培训、教学、公共广播、婚庆、小型晚会等场所

## ■ 技术参数

### 系统指标:

频率范围: 470~960 MHz(分段设计)

通道数: 两通道

信道数: 200

调频宽度: 50MHz

信道间隔: 250KHz或25KHz

调制/解调方式: FM

静音控制: 导频ID码

调制频偏:  $\pm 48\text{KHz}$

频率响应: 80Hz~16KHz

频率稳定度:  $\pm 0.015\%$

信噪比:  $\geq 100\text{dB A+}$

动态范围:  $\geq 90\text{dB A+}$

失真度:  $\leq 0.5\%$  (at 1KHz)

使用距离: 50米(空旷无障碍)

### 接收机:

接收机供电: DC 12V  $\approx$  0.5A

天线接口: TNC/阻抗50欧姆

接收灵敏度:  $\leq -85 \pm 5\text{dBm}$  (接线测试)

最大音频输出: 2V/RMS

(at 1KHz THD=1%时)

音频输出方式: 独立 (XLR插座) 和

混合 (6.3mm插座)

接收机尺寸 (L\*W\*H) : 430\*190\*51mm

接收机重量: 2360g

### 发射器:

发射机供电: 2节AA电池

发射机功率:  $\leq 10\text{mW}$

使用时间: 大于8小时

手持麦克风尺寸 (D\*H) : 53\*270 mm

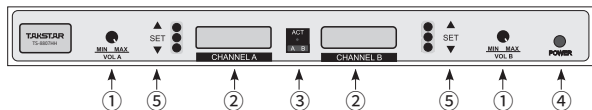
手持麦克风尺寸重量: 350g

注: 以上数据由得胜实验室测得并拥有最终解释权。

## ■ 功能示意

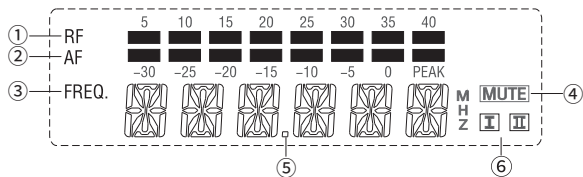
### 接收机

#### 正面板：



- 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；电源开关打开时，液晶显示屏亮；
- ⑤ 功能按键：用于频率调整、对频、扫频等操作。

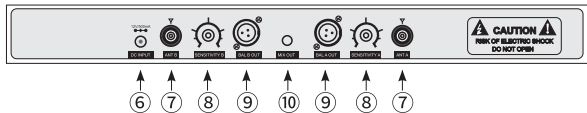
#### 液晶显示屏：



- 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：I 为A通道，II 为B通道



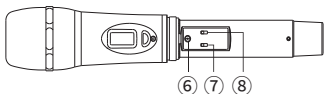
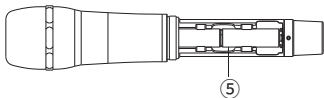
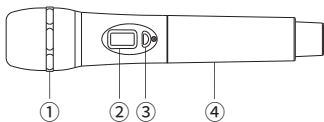
## 背面板:



- ⑥ 电源插座：连接12V DC 电源至输入插座；插座的中心电极连接正电压；
- ⑦ 天线连接座：连接外置天线，增加使用距离；
- ⑧ 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；
- ⑨ 音频平衡输出：采用“XLR”型插座，两通道信号分别输出；
- ⑩ 音频非平衡输出：采用“P”型插座，两通道混合信号分别输出。

## 手持麦克风

- ① 网头及音头模组：网头用以保护将声音转换成音频信号的音头模组，消除“POP”风杂音，并能防止麦克风放置在台面时滚动。
- ② 液晶显示器：显示信道和电池电量。
- ③ 电源开关：关机状态下长按2秒开机  
开机状态下长按2秒关机
- ④ 麦克风管体：管端装配网头、音头模组、管体内装电池，发射电路板，尾部内置发射天线。
- ⑤ 电池仓：用于装入AA电池2节
- ⑥ 红外对频窗口：配合接收机SET键，将频道参数传至发射器。
- ⑦ 锁定开关：用于锁定操作按键，置于“ON”时，外置电源键无法关机。
- ⑧ 高低功率转换开关：用于转换麦克风高/低发射功率。



## ■ 叠机推荐频率表说明

频段	序号	A通道	B通道	频段	序号	A通道	B通道	频段	序号	A通道	B通道
Bank1	1	640.300	665.200	Bank2	1	649.450	680.650	Bank3	1	648.350	675.000
	2	640.750	665.800		2	650.500	681.350		2	649.700	676.750
	3	641.450	667.300		3	656.650	670.150		3	650.200	684.200
	4	642.450	684.750		4	646.500	677.500		4	650.900	677.850
	5	642.900	669.100		5	652.150	678.000		5	651.300	680.950
	6	643.700	672.100		6	660.850	679.550		6	642.850	667.600
	7	644.800	673.900		7	664.150	666.250		7	655.600	669.700
	8	645.750	675.500		8	646.350	683.000		8	661.150	674.350
	9	654.550	676.150		9	646.800	685.500		9	657.100	686.000
	10	660.100	679.750		10	647.750	672.250		10	657.850	669.700
频段	序号	A通道	B通道	频段	序号	A通道	B通道	频段	序号	A通道	B通道
Bank4	1	662.200	677.050	Bank5	1	640.450	674.650	Bank6	1	663.150	680.200
	2	640.000	671.350		2	641.650	681.250		2	663.650	673.150
	3	640.900	675.400		3	646.000	673.600		3	644.650	677.650
	4	642.100	676.400		4	647.200	680.800		4	651.750	681.550
	5	655.150	678.250		5	658.550	665.950		5	641.950	666.750
	6	652.450	680.050		6	659.450	667.950		6	646.300	672.350
	7	653.050	688.550		7	660.650	665.000		7	646.900	677.350
	8	653.450	681.700		8	661.200	675.850		8	649.000	680.100
	9	654.200	670.450		9	662.050	676.250		9	652.300	682.250
	10	654.750	673.450		10	662.350	679.150		10	640.150	682.700
频段	序号	A通道	B通道	频段	序号	A通道	B通道	频段	序号	A通道	B通道
Bank7	1	663.150	683.750	Bank8	1	647.950	681.750	Bank9	1	647.050	679.000
	2	663.650	685.000		2	654.850	680.500		2	647.800	679.950
	3	644.650	688.250		3	656.200	675.800		3	650.050	686.500
	4	651.750	686.850		4	657.250	672.100		4	660.550	674.200
	5	641.950	678.450		5	664.200	665.600		5	640.600	672.250
	6	646.300	679.450		6	664.750	666.800		6	649.250	675.250
	7	646.900	676.200		7	644.500	667.250		7	651.550	676.450
	8	649.000	675.200		8	655.750	668.300		8	663.400	678.100
	9	652.300	685.750		9	643.900	668.700		9	651.000	670.350
	10	640.150	669.200		10	645.250	669.600		10	654.900	670.800
频段	序号	A通道	B通道								
Bank10	1	641.050	671.450								
	2	642.000	671.850								
	3	645.350	673.050								
	4	646.700	674.000								
	5	652.750	674.900								
	6	657.700	675.600								
	7	661.300	666.150								
	8	643.400	683.550								
	9	644.450	686.450								
	10	650.250	685.850								

## ■ 使用说明

- ① 接收机开机前，发射机暂勿打开，先将接收机音量调小，然后长按接收机电源键3秒开机，电源导通后，液晶显示屏背景灯亮，所有字符全部显示，随后显示接收机频率；
- ② 在未开发射器的情况下，应观察液晶显示屏的RF和AF电平表，若有强的干扰，应调换频道避开干扰点；
- ③ 手持麦克风开机的情况下，接收机对应频道的RF电平表信号强度点亮；
- ④ 长按发射机发言键3秒，发射机电源关闭；长按接收机电源键3秒，接收机电源关闭。

## 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③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④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“▼”键可调整当前使用的频率，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

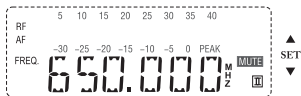
在图①界面的状态下，长按3秒对应通道的“▲”键，接收机的对应通道进行自动扫描状态，频率会跳动，当扫描到干净频点时，接收机会自动发出红外对频状态，如图②。这时打开发射机，将“IR”窗口对准“ACT”即可。

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

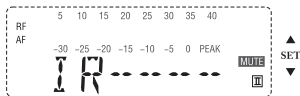
## 3. 信道间隔调节

在图①界面的状态下，长按3秒对应通道的“▼”键，接收机屏幕显示图⑤后，继续按“▼”键，屏幕显示图⑥，继续按“▼”键，屏幕显示图⑦，

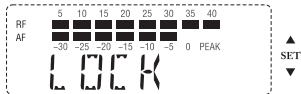
信道间隔需要250KHz时，在屏幕显示图⑥短按“SET”键确认后，频率调节信道间隔为250KHz，信道间隔需要25KHz时，在屏幕显示图⑦短按“SET”键确认后，频率调节信道间隔为25KHz。



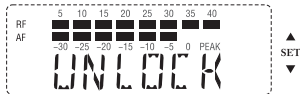
图①



图②



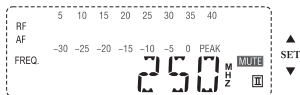
图③



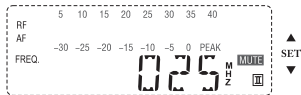
图④



图⑤



图⑥



图⑦

## ■ 安全警示

为避免电击、过高温度、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. 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. 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，使用中避免靠近裸露火源、碰到液体物质、雨淋、产品进水、过度碰撞、抛掷、振动本机及覆盖通风孔，以免损坏其功能；
6. 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；
7. 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；
8. 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。

## ■ 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 发射机使用中出現显示屏闪烁时，表示电池电量不足，需更换电池；
- ⑥ 若发射机长期不使用时，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。

## ■ 故障现象/故障原因

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
音频信号背景噪声太大	发射调制频偏太小，接收输出电平低。 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，接收机输出电平过高
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

如果出现的故障不包含在上表，切勿自行拆开修理，请联系厂家或当地经销商！

## ■ 环保说明

### 产品中所含有毒有害物质或元素的名称及含量

部件名称 (大体分类)	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)
塑胶部件	○	○	○	○	○	○
五金部件	×	○	○	○	○	○
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。



### 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

◆ 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富康一路2号

## ■ Preface

Dear Customer,

Thank you for purchasing Takstar UHF wireless conference microphone.

Please read the user manual carefully before operation and keep it for reference in future. If you have any question or suggestion, please contact our local dealer.

## ■ Features

- ID code function effectively prevents from external interference and channel crosstalk noise
- The receiver has the function of one button to automatically scan and quickly select the channel without interference
- One-key infrared auto sync between transmitter and receiver
- The receiver has SQ adjusting function. The transmitter has high/low power switching function. User can adjust the sensitivity and improve anti-interference capability and operation range according to the application environment
- Independent bal XLR and unbal 6.3 combo connector for convenient connection
- The transmitter and receiver have locking function to prevent from misoperation



## ■ Specification

### System Specification:

Frequency Range: 470~960 MHz(Frequency band)

Channel Quantity: dual channels

Signal Channel: 200

FM width: 50MHz

Channel Spacing: 250KHz or 25KHz

Modulation/Demodulation: FM

Mute Control: pilot frequency ID code

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

Frequency Response: 80Hz~16KHz

Frequency Stability:  $\pm 0.015\%$

S/N Ratio:  $\geq 100\text{dB A+}$

Dynamic Range:  $\geq 90\text{dB A+}$

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

Operation Range: 50m (line of sight)

### Transmitter:

Transmitter Power Supply: 2 AA batteries

Transmitter:  $\leq 10\text{mW}$

Operation Time: more than 8h

Handheld Microphone Dimension (D\*H): 53\*270 mm

Handheld Microphone Weight: 350g

## Receiver:

Receiver Power Supply: DC 12V $\pm$ 0.5A

Wireless Connector: TNC/Impedance 50 Ohm

Receiver Sensitivity:  $\leq -85 \pm 5$ dBm (test after connection)

Max Audio Output: 2V/RMS(at 1KHz THD=1%)

Audio Output: independent (XLR) and combo (6.3mm)

Receiver Dimension (L\*W\*H): 430\*190\*51mm

Net Weight: 2360g

Note: The above data is measured by Takstar laboratory, and Takstar has the final interpretation right!

## ■ Application

Conference, training, teaching, PA, wedding, small party

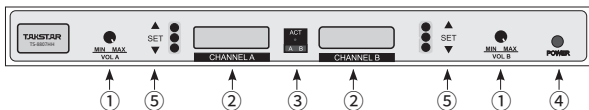
## ■ Product Content

Receiver .....	1pc
Handheld microphone.....	2pcs
Audio cable.....	1pc
Power adapter.....	1pc
Antenna .....	2pcs
Angle bracket .....	1set
1.5V AA battery .....	4pcs
User manual .....	1pc

## Function Instruction

### Receiver

#### Front panel:



① Volume control: it adjusts the output volume.

② LCD:

It displays matching status, frequency and the receiving signal level.

③ Infrared matching window:

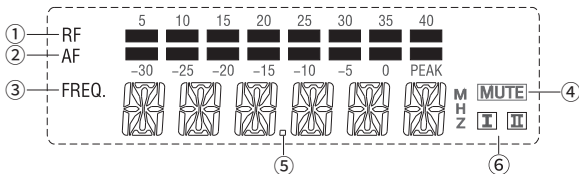
It is used with SET button to transmit the frequency parameter to the transmitter.

④ Power switch:

It turns on/off the receiver. When the receiver is turned on, LCD lights up.

⑤ Function button: it is used for frequency adjusting, matching and scanning.

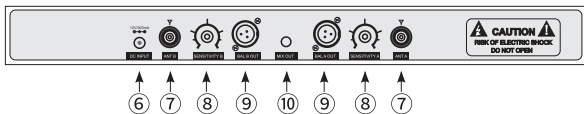
#### LCD:



① 8 section RF level display: it displays the receiving signal level.

- ② 8 section audio level display: it displays the 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 the receiver is in mute status.
- ⑤ 6 character display: it displays the current information.
- ⑥ Channel selection display: **I** is channel A; **II** is channel B.

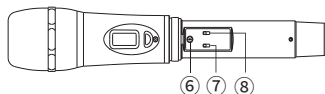
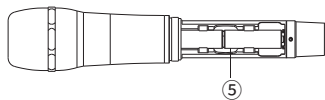
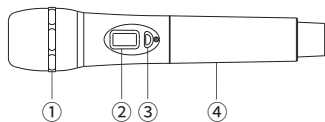
## Rear panel:



- ⑥ Power connector: it connects with 12V DC power supply with the input connector. The central pin connects with + voltage.
- ⑦ Antenna connector: it connects with external antenna to increase the operation range.
- ⑧ Sensitivity adjustment: adjustment range: 0-40dBm; The smaller the number is, the lower sensitivity is, and the closer the operation range is, but the higher anti-interference capability is, and vice versa.
- ⑨ Audio balanced output: XLR connector, signal output of each channel on each side.
- ⑩ Audio unbalanced output: type P connector, two channel combo signal output.

## Handheld Microphone

- ① Grille and cartridge: grille protects the cartridge, eliminates “pop” noise and avoids rolling when placed on the table.
- ② LCD Display: indicate frequency/channel and battery level.
- ③ Power Switch: Press 2 seconds to turn on the transmitter, and press 2 seconds to turn off.
- ④ Microphone Housing: assemble the wire-mesh cap and capsule on the top, with batteries, transmission PCB inside and antenna at the rear.
- ⑤ Battery Compartment: put in 2pcs AA batteries.
- ⑥ Infrared Data Synchronization Window: transmit the frequency signal to the transmitter by pressing the “SET” button on the receiver.
- ⑦ Locking Switch: lock the operation button. Switch to “ON” position, transmitter can not be turned off by the power switch.
- ⑧ Transmit Power Adjusting Switch: adjust the transmit power.



## ■ Troubleshooting

Problem	Reason
Transmitter or receiver has no indication	The transmitter battery is used up. The receiver power supply is not connected well.
Receiver has no RF signal	Transmitter and receiver are not in the same channel or out of the operation range.
There is RF signal but no audio signal	The microphone signal is not sent to the receiver or the receiver has too deep squelch setting.
Too loud audio background noise	The transmission modulation deviation is too small. Too low receiver output level or there is interference signal
Audio signal distortion	The transmitter cartridge is too close to the mouth or the receiver output level is too high.
Short operation range, unstable signal	The receiver has too deep squelch setting, or the antenna is not set well or there is strong electromagnetic interference

**If you can not solve the problem, do not disassemble the product by yourself. Contact the local dealer or the factory please.**

## ■ Operation Instruction

- ① Before turning on the receiver, do not turn on the transmitter. Reduce the receiver volume, then press the receiver power switch for 3 seconds. When the receiver is powered on, LCD lights up and displays all characters and the receiving frequency.
- ② Before turning on the transmitter, check RF and AF level on LCD. If there is interference, adjust to another channel to avoid the interference.
- ③ Press the transmitter speech button shortly. LED lights up red. RF level meter of the receiver lights up.
- ④ Press the transmitter speech button for 3 seconds. The transmitter turns off. Press the receiver power button for 3 seconds. The receiver turns off.

## Lock and unlock the system

Lock the system: refer to figure ① and press SET button for 3 seconds and it displays the interface (refer to figure ③). All the function buttons are locked (power switch excluded).

Unlock: press SET button for 3 seconds for unlocking and it displays the interface (refer to figure ④).

## Frequency adjustment

### 1. Adjusting frequency manually

Refer to figure ①, shortly press “▲” and “▼” button to adjust the current operation frequency. When you adjust to the needed frequency, stop pressing and the frequency stops, then the frequency adjusting is successful. Turn on the transmitter power switch. Point the transmitter IR window to the receiver IR window. Keep ACT with IR window in a straight line (distance range 10cm-50cm). At this time, press SET button, it displays matching

interface and then matching search information. When the matching is successful, it changes to frequency channel display interface. If matching is unsuccessful, press SET match till matching is successful.

## 2. Auto-scanning operation

Refer to figure ①. Press the relative channel “▲” button for 3 seconds. The relative receiver channel automatically scans. The frequency changes. When the frequency without noise is scanned, the receiver automatically has infrared matching status (refer to figure ②). At this time, turn on the transmitter. Point IR window to AC.

(Note: when multiple units are used, the matched transmitter needs to be turned on, and then the system will scan the next receiver).

## 3. Adjusting channel interval

Start with figure ① screen. Press and hold “▼” button on related channel for 3 seconds until the receiver screen shows as figure ⑤. Then, press “▼” button to change to figure ⑥, and press again to change to figure ⑦. To set channel interval to 250KHz or 25KHz, press SET button on figure ⑥ or ⑦ screen respectively.

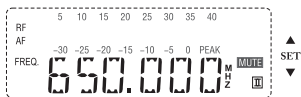


Figure ①

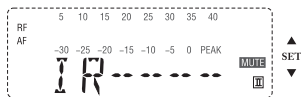


Figure ②

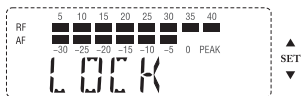


Figure ③

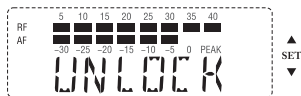


Figure ④





Figure ⑤

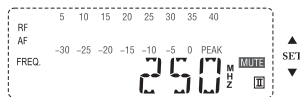


Figure ⑥

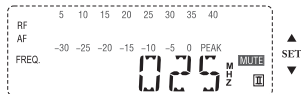


Figure ⑦

## Notices

- 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 During operation, if the LCD screen of the transmitter flashes, it means that the battery is running low and should be replaced 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 distortion. If too far, it leads to insufficient modulation and less S/N ratio. It is recommended to keep the distance 5~15cm.

## ■ Recommended Frequency for Multi-set Use

BAND	NO.	CH A	CH B	BAND	NO.	CH A	CH B	BAND	NO.	CH A	CH B
Bank1	1	640.300	665.200	Bank2	1	649.450	680.650	Bank3	1	648.350	675.000
	2	640.750	665.800		2	650.500	681.350		2	649.700	676.750
	3	641.450	667.300		3	656.650	670.150		3	650.200	684.200
	4	642.450	684.750		4	646.500	677.500		4	650.900	677.850
	5	642.900	669.100		5	652.150	678.000		5	651.300	680.950
	6	643.700	672.100		6	660.850	679.550		6	642.850	667.600
	7	644.800	673.900		7	664.150	666.250		7	655.600	669.700
	8	645.750	675.500		8	646.350	683.000		8	661.150	674.350
	9	654.550	676.150		9	646.800	685.500		9	657.100	686.000
	10	660.100	679.750		10	647.750	672.250		10	657.850	669.700
BAND	NO.	CH A	CH B	BAND	NO.	CH A	CH B	BAND	NO.	CH A	CH B
Bank4	1	662.200	677.050	Bank5	1	640.450	674.650	Bank6	1	663.150	680.200
	2	640.000	671.350		2	641.650	681.250		2	663.650	673.150
	3	640.900	675.400		3	646.000	673.600		3	644.650	677.650
	4	642.100	676.400		4	647.200	680.800		4	651.750	681.550
	5	655.150	678.250		5	658.550	665.950		5	641.950	666.750
	6	652.450	680.050		6	659.450	667.950		6	646.300	672.350
	7	653.050	688.550		7	660.650	665.000		7	646.900	677.350
	8	653.450	681.700		8	661.200	675.850		8	649.000	680.100
	9	654.200	670.450		9	662.050	676.250		9	652.300	682.250
	10	654.750	673.450		10	662.350	679.150		10	640.150	682.700
BAND	NO.	CH A	CH B	BAND	NO.	CH A	CH B	BAND	NO.	CH A	CH B
Bank7	1	663.150	683.750	Bank8	1	647.950	681.750	Bank9	1	647.050	679.000
	2	663.650	685.000		2	654.850	680.500		2	647.800	679.950
	3	644.650	688.250		3	656.200	675.800		3	650.050	686.500
	4	651.750	686.850		4	657.250	672.100		4	660.550	674.200
	5	641.950	678.450		5	664.200	665.600		5	640.600	672.250
	6	646.300	679.450		6	664.750	666.800		6	649.250	675.250
	7	646.900	676.200		7	644.500	667.250		7	651.550	676.450
	8	649.000	675.200		8	655.750	668.300		8	663.400	678.100
	9	652.300	685.750		9	643.900	668.700		9	651.000	670.350
	10	640.150	669.200		10	645.250	669.600		10	654.900	670.800
BAND	NO.	CH A	CH B								
Bank10	1	641.050	671.450								
	2	642.000	671.850								
	3	645.350	673.050								
	4	646.700	674.000								
	5	652.750	674.900								
	6	657.700	675.600								
	7	661.300	666.150								
	8	643.400	683.550								
	9	644.450	686.450								
	10	650.250	685.850								

## ■ Cautions

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 this system power matches with that of the connected 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 switch 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 danger or affecting the environment.
5. 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.
6. When the product needs to be installed on wall or ceiling, please fix it tightly to avoid dropping risk.
7. Please abide by safety rules during operation. Do not use the product in the place prohibited by regulation or law to avoid accident.
8. Do not disassemble or repair the product by yourself to avoid hurt. If you have question or need service, please contact the local dealer.



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