

# TAKSTAR® 得勝

用户手册  
User Manual

# TAKSTAR®



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## TS-7210

UHF无线麦克风  
UHF Wireless Microphone

## 产品特性

- 采用UHF无线麦克风专用频段设计，不受其它工业频率的干扰
- 接收机采用二次变频和双天线接收技术，抗干扰能力强
- 发射器具有电池电量指示功能，及时反馈电池状态
- 发射器采用专业音频压扩芯片，瞬态响应好、动态范围大
- 接收机采用石英倍频，数据导频、杂讯锁定、杂音锁定多重控制技术，有效防止射频干扰和开关机冲击声，并提高信号的信噪比
- 发射机采用通用的5号电池供电，方便用户购买及维护

## 操作说明

### 用户界面



### 接收机正面

- ① 射频信号指示灯：用于接收信号指示
- ② 音量调节旋钮：用于调整接收机输出音频信号的大小



2. If the microphone is near the sound source, proximity effect will occur, it could make the low frequency effect fuller and gentler if use it properly.

## Specification

Frequency Range: 790MHz-805MHz

Frequency Control: PLL/ Quartz frequency doubling

Frequency Steadiness:  $\pm 0.005\%$

Modulation Mode: FM

Channel: fixed

Receiving Mode: double-super system

Frequency Response: 60Hz-15kHz

Max. Frequency Deviation:  $\pm 45\text{kHz}$

S/N Ratio:  $> 80\text{dB}$

THD:  $< 0.5\%$

Receiving Sensitivity:  $-90\text{dBm}$

Dynamic Range:  $> 100\text{dB}$

Audio Output: unbalanced  $\Phi 6.3\text{mm}$  jack

Transmit Power:  $< 10\text{mW}$

Transmitter Power Supply: 3V (2pcs 1.5V battery)

Transmitter Battery Playtime: approx.10hrs (depending on the battery)

Operating Range: 50m outdoors

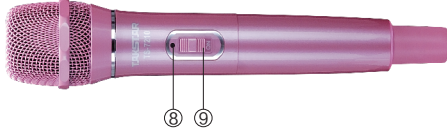
Operating Temperature:  $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$

## Delivery includes

TS-7210 receiver	1pc
TS-7210 transmitter	1pc
Power adapter	1pc
Battery	2pcs
Audio cable	1pc
User manual	1pc

## Rear Panel

- ③ Antenna B
- ④ Unbalanced output socket
- ⑤ Power switch: push the power switch to ON position to turn on the receiver
- ⑥ DC power input socket: power adaptor input terminal
- ⑦ Antenna A



## Handheld Microphone

- ⑧ Power indicator
- ⑨ Power switch: push the switch to “ON” to turn on the microphone

## Usage Method

1. Connect the output terminal of power adaptor to the DC IN socket ⑥, and then plug the other side into the AC power-supply socket.
2. When connecting the unbalanced output socket ④ to the input socket of amplifier, please make sure to turn down the volume on the amplifier first.
3. And then turn on the power switch ⑤ on the rear of receiver.
4. Open the tail of transmitter and then put into 2pcs AA batteries.
5. Turn on the power switch of transmitter ⑨, make sure the frequency of the transmitter and receiver are the same.
6. You could get the satisfied volume via the volume control ② on the front of the receiver.

## Using Skill

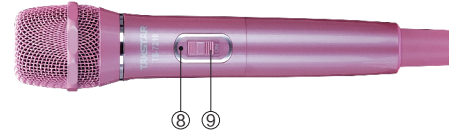
7. Please keep a proper distance between the metal side, wall and other RF equipment when installing the receiver.

## Caution

1. In order to avoid howling:
  - Please turn down the volume.
  - Please do not put the microphone toward the speaker, and make sure to keep a proper distance between the speaker and microphone.
  - Please do not cover the mesh cap of the microphone by your hand.

## 接收机背面

- ③ 天线B
- ④ UNBLANCED 输出口
- ⑤ 电源开关：开关拨向ON位置表示开机
- ⑥ 直流电源输入插座：电源适配器接入端
- ⑦ 天线A



## 手持麦克风

- ⑧ 指示灯：
- ⑨ 电源开关：开关拨向“ON”位置表示开机

## 使用方法

1. 将本机所配电源适配器输出端连接到接收机直流电源输入插座 ⑥，另一端接到交流电源插座上。
2. 当连接接收机非平衡式音频输出插座 ④ 与扩音设备的输入插座时，请确保先将扩音设备的音量调低。
3. 然后打开接收机背面的电源开关 ⑤。
4. 打开发射机管体尾部，装入两节AA电池。
5. 打开发射机电源开关 ⑨，确保其发射频率与接收机的接收频率相匹配。
6. 使用时可通过调整接收机前面的音量控制来获得您满意的音质效果。

## 效果使用技巧

7. 接收机装设时，应与金属面、墙面以及其它射频设备保持适当的距离。

## 使用提示

1. 为防止声反馈（啸叫）：
  - 将音量调低
  - 请勿将麦克风指向扬声器，务必保持扬声器和麦克风之间有足够的距离。
  - 请勿用手罩住麦克风头部。

2. 若麦克风靠近音源会产生所谓的近场效应（即低音频响应增强）。这种效应若适当用可使低频音效更为饱满、柔和。

### 技术参数

频率范围: 790MHz-805MHz  
 频率控制范围: PLL锁相环/石英倍频  
 频率稳定度:  $\pm 0.005\%$   
 调制方式: FM  
 信道数: 固定频率  
 接收方式: 二次变频  
 频率响应: 60Hz-15kHz  
 调制频偏:  $\pm 45\text{kHz}$   
 信噪比:  $> 80\text{dB}$   
 失真度:  $< 0.5\%$   
 接收灵敏度:  $-90\text{dBm}$   
 动态范围:  $> 100\text{dB}$   
 接收机输出方式: 非平衡输出  
 发射功率:  $< 10\text{mW}$   
 发射器供电方式: 3V(2节1.5V电池)  
 发射器电池使用时间: 约10小时(和电池有关)  
 使用距离: 空旷范围50米  
 使用温度:  $-20\text{度}\sim 60\text{度}$

### 物料清单

TS-7210接收机	一台
TS-7210发射机	一支
电源变压器	一个
电池	两个
音频连接线	一条
说明书	一本

## Features

- UHF wireless frequency band, double-supersystem and dual antenna receiving technology guarantee interference-free reception
- Transmitter features battery power indication (lights green when power is normal, glitters green and then off when power is low)
- Microphone adopts professional audio companding chip for excellent transient response and wide dynamic range
- Quartz frequency doubling, data pilot frequency, noise lock technology prevent RF interference and on/off switch impulsive noise, and improve the SNR
- Transmitter is powered by 2pcs AA battery for convenient use

## Operating Instructions

### User Interface



### Front Panel

- ① RF indicator: it lights red when receiving the signal
- ② Volume control knob: adjust the volume level of the receiver output

