

# TAKSTAR® 得勝



## TAKSTAR®

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## G3

### UHF无线麦克风

UHF Wireless Microphone

### 用户手册

User Manual

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### ※注意事项 Caution

- 为了确保您更好地使用本产品，请在使用前，详阅本说明书，了解正确操作方法，以获得理想的使用效果；并请妥善保存好本说明书，以备将来需要。
- To ensure better operation, please read the user manual carefully to know the right operation way. Please keep it for reference in future.

# 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镇富康一路2号

## 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）。

## 安全须知

- 只能使用本机提供的电源适配器，并且确认接入电源电压是否与适配器要求一致，若使用其它规格的电源适配器，可能会损坏本机。
- 本机外置的电源适配器使用220V AC电源电压，使用其它电压会引起火灾和故障。
- 请勿将本机放在高温、潮湿、灰尘多的地点及碰到液体物质，以免造成故障。
- 请勿碰撞、抛掷、振动本机，以免损坏本机。
- 不要将接收机、发射器及电源适配器打开、触摸、改动，若机器出现故障，请联系当地代理商或我司售后服务部。
- 在使用过程中，若发现有任何异常，如冒烟、异味等，请立即拔掉电源适配器，并将产品送检修。
- 装入电池时，不可将电池正负极颠倒，长时间不使用本机时，请将电池从发射器中取出。
- 严禁使用外壳绝缘材料破损的电池，否则可能引起短路。
- 长时间离开正在工作的本机，请关掉本机，将电源适配器拔下，决不可任由机器开着。

## 产品特性

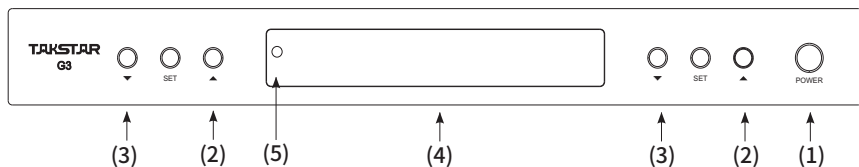
- 采用UHF频段设计，预编程2000个可选信道，可多套同时使用。
- 接收机预设150组无干扰频道，可轻松完成KTV工程安装。
- 特设频道ID识别码检测技术，可有效防止频道之间串扰。
- 手持采用智能感应控制技术，开机后能根据使用状态自动打开和关闭麦克风，有效防止啸叫和延长电池使用时间。
- 手持具有跌落静音功能，可有效保护后级音响设备。
- 专业音频压缩-扩展技术，噪音小、尾音小、动态范围大。
- 接收机具备静噪灵敏度调节功能，发射机具有功率高低调节功能，可提高抗干扰能力或增加接收距离。
- 具有独立的输出（XLR）和混合（6.35mm）输出，方便连接调音台、音频处理、功放设备。

## 调校注意

- 正确的调整发射器音频灵敏度非常重要，太高的灵敏度将会引起过调制而产生信号失真，太低的灵敏度使调制度不够，将会降低信噪比。手持发射器（麦克风）出厂时已根据所配的音头将灵敏度调整到适当电平，无需用户调整。
- 若频率设置适当，在同一空间，同一频段同时使用多达12支发射器也不会产生互相干扰；若频率设置不当，将会引起互相干扰。
- 若多套机器在同一空间使用，请尽量避免让各个接收机重叠在一起使用。

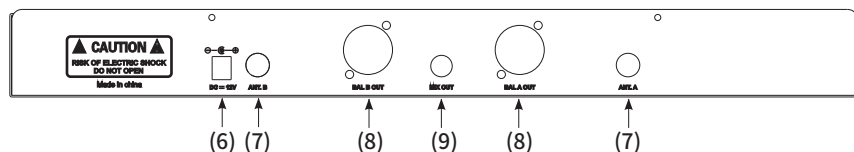
## 接收机功能和操作方法

### 正面板



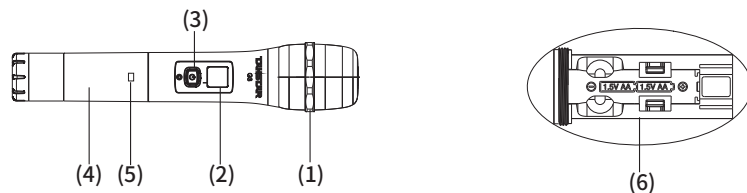
- (1) 电源开关键：开启关闭机内的电源供应；电源打开时，液晶显示屏亮。
- (2) 功能上键按钮：调节输出音量的增加和菜单上键。
- (3) 功能下键按钮：调节输出音量的减小和菜单下键。
- (4) 液晶显示：显示对频工作状态、频率/频道、静噪、接收信号强度、音频动态电平等信息。
- (5) 红外对频窗口：配合面板“SET”键，将频率参数传至发射机。

### 背面板



- (6) 电源插座：连接12V DC 电源；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。（ANT. A端口需对应ANT. A天线，ANT. B端口需对应ANT. B天线）
- (8) 音频平衡输出：采用“XLR”型插座，两通道信号分别输出。
- (9) 音频非平衡输出：采用“P”型插座，两通道信号混合输出。

### 手持麦克风



### 环保说明

⑩ 该标记附加在出售到中华人民共和国的电子信息产品上。环形中的数字表示的是环境保护使用期限的年数。

部件名称 (大体分类)	有毒有害物质或元素					
	铅 (Pb)	水银 (Hg)	镉 (Cd)	六价铬 (CrVI)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
机体 (金属部件)	×	○	○	○	○	○
安装基板/电器部件	×	○	○	○	○	○
缆线类	×	○	○	○	○	○
备注:	○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求以下。 ×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求。 因为在当代技术下还没有可替代的物质。					

## Specification

Mute control: pilot frequency

Max frequency deviation:  $\pm 75\text{kHz}$

Frequency response: 60Hz-15kHz

Frequency stability:  $\pm 0.005\%$

S/N ratio:  $> 95\text{dB A+}$

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

Channel quantity: 2 channels

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

Operating range: 50m

Receiver power supply: DC 12V

Transmitter power supply: 2pcs AA batteries

Transmitting power:  $\leq 10\text{mW}$

Frequency range: 600~950MHz (divided into frequency bands)

Output: independent balanced XLR and unbalanced 6.3mm

## Product Content

G3 receiver	1pc
Handheld microphone	2pcs
Audio transmission cable	1pc
Power adapter	1pc
Antenna	2pcs
Rack mount	1set
AA battery	4pcs
User manual	1pc

(1) 网头及音头模组：网头用以保护将声音转换成电信号的音头模组，并能防止麦克风放置在台面时滚动。

(2) 液晶显示器：显示工作频率、电池电量及高低功率。

(3) 电源开关/感应功能按键：用于开启/关闭发射机电源及感应功能。

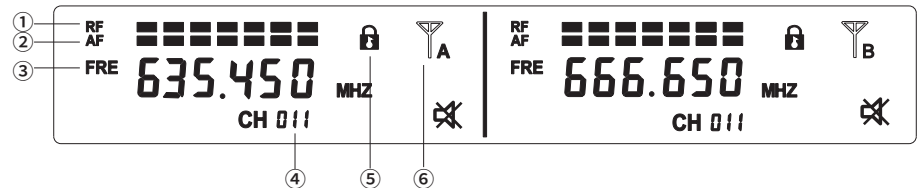
(4) 麦克风管体：管端装配网头、音头模组、管体内装电池、发射电路板、尾部内置发射天线。

(5) 红外对频窗口：配合接收机“SET”键，将频率参数传至发射器。(红外窗口在尾管内部)

(6) 电池仓：用于装入AA电池2节（注意电池放置的极性）

## 液晶显示面板操作

### 1. 接收机LCD 全亮显示



① 7级射频电平显示：显示接收信号强度

② 7级音频电平显示：显示声音信号动态

③ 频率菜单显示：显示当前工作频率

④ KTV模组显示：显示当前工作KTV模组

⑤ 锁定指示：显示功能按键锁定状态

⑥ 通道选择显示：显示当前使用通道

### 2. 接收机LCD 面板操作说明

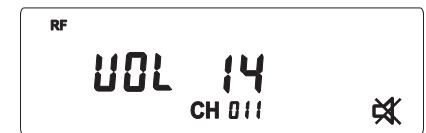
A 设置音量：接收机声音音量大小输出调整

操作方法：

在显示初始状态（如图①），点按/长按对应通道的“▲”或“▼”键，可单级或快速的调整对应通道音量的增加或减小（如图②），然后松开手，LCD闪动四下后，恢复到初始界面，调整成功。（注：音量级数从：00~30）。



图①



图②

## B 设置KTV模组：系统的KTV模组预设150组调整

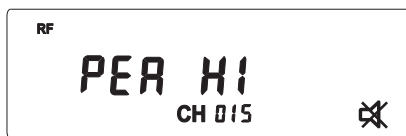
### 操作方法：

在显示初始状态（如图①），长按面板上任意一个通道的“SET”键，直至LCD字符闪动。点按/长按选中的通道“▲”或“▼”键，可逐级或快速的调整系统预设的KTV模组。然后松开手，LCD闪动四下后，恢复到初始界面，调整成功。（注：KTV预设模组从001~150且调整任意一边模组，两边是同时跳变的）

## C 设置发射机功率：调整预设的发射机两级（高或低）功率。

### 操作方法：

在显示初始状态（如图①），长按对应通道的“SET”键，直至LCD字符闪动。然后松开手，再点按“SET”键，LCD显示“PEA LO或PEA HI”（如图③）。然后点按“▲”或“▼”键，选择所需要的功率级别（当前显示内容，PEA HI代表高功率，PEA LO代表低功率）。然后松开手，LCD闪动四下后，恢复到初始界面，调整成功。（注：此设置需要配合红外对频，成功后将数据发送给发射机才能完成）



图③



图④

## D 设置接收机的静噪灵敏度：调整接收信号电平静音阈值

### 操作方法：

在显示初始状态（如图①），长按对应通道的“SET”键，直至LCD字符闪动。然后松开手，再点按两下“SET”键，LCD显示“SQL”，然后松开手，LCD画面转为“-90 db”闪动（如图④）。然后点按“▲”或“▼”键，选择所需要的灵敏度级别（当前显示内容）。然后松开手，LCD闪动四下后，恢复到初始界面，调整成功。（调整的范围：-60~-100dB，调试到-60dBm时距离会短，但抗干扰能力强，调试到-100dBm时距离会远，但抗干扰能力弱，建议调在-80~-90dBm之间）

## E 设置接收机的频率：调整接收机的TUNER的频率

### 操作方法：

在显示初始状态（如图①），长按对应通道的“SET”键，直至LCD字符闪动。然后松开手，再点按三下“SET”键，LCD显示“TUNE”，然后松开手，LCD



图⑤

画面转频率为“674.500 Mhz”闪动（如图⑤）。然后点按/长按“▲”或“▼”键，逐级/快速选择所需要的频率（当前显示内容）。然后松开手，LCD闪动四下后，恢复到初始界面，调整成功。（注：频道单个通道有1000个）

## F 设置接收机启动自动扫描功能：对应通道扫描不干扰频率并选择

### 操作方法：

在显示初始状态（如图①），长按对应通道的“SET”键，直至LCD字符闪动。然后松开手，再点按四下“SET”键，LCD显示“SCAN”（如图⑥），然后松开手，约2秒后LCD屏幕的频率在跳动代表已经进入自动



图⑥

扫描模式，然后接收机会选择不干扰频率停下，1秒后接收机自动进入对频状态。

## Trouble Shooting

Problem	Reason
No indication of transmitter or receiver	The transmitter battery has been used up, the receiver does not connect with the power supply well.
The receiver has no RF signa	Different frequency is transmitted or received, or the receiver is out of the receiving range
There is RF signal but no audio signal	Transmitter microphone is disconnected.
Too loud background noise of audio signal	Low receiving output level, or there is interference signal or the receiver has no antenna assembled, S/N ratio decreases
Audio signal distortion	Too large modulation frequency deviation of transmitter or too high receiver output level
Short operating distance, unstable signal	Improper receiver antenna setting, or there is strong electro-magnetic interference
The microphone has no sound after turned on several seconds	The transmitter sense function has been turned on, but does not sense the transmitter moving (e.g. the transmitter is put on the microphone stand) (Note: refer to Page 16 for sense function operation)

If the problem still cannot be solved, do not disassemble by yourself, please contact the factory or local dealer.

### Use and Store!

Do not use or store this unit in high humidity, strong electromagnetic field, strong sunlight, high temperature environment. If it will not be used for a long time, please disconnect the receiver power supply, and take the battery out of the transmitter.

Cleaning: unplug the power plug before cleaning, use dry cloth for cleaning. Do not use detergent or soluble liquid; otherwise it will damage the surface finish.

Power supply: ensure the power supply meets the operating requirement, too high or too low voltage will affect the performance. Please keep the right polarity when loading the batteries into transmitter, otherwise it may damage the transmitter.

Maintenance: if this unit has problem or the performance goes bad, please do not disassemble by yourself to avoid electric shock or machine damage and voiding the warranty. Please contact the local dealer or our after-sale-service department for maintenance. We will offer our best service.

Accessories: please use the accessories supplied by manufacturer or approved accessories for ideal performance.

Warranty: there is no repairing part inside, please do not disassemble by yourself, otherwise it will void the warranty.

## Operating Instruction

A. Before turning on the receiver, do not turn on the transmitter, decrease the receiver volume first, then press the receiver power button to turn it on. After the receiver is powered on, LCD backlight lights up and all characters & symbols are displayed, the main display column displays receiver channel/frequency/automatic matching frequency status. Before the transmitter is turned on, please pay attention to the RF and AF level meter, if the interference is strong, start SCAN to scan automatically and avoid the interference frequency. After the transmitter is turned on, RF level meter of the relative channel lights up, set the receiver volume to proper level, and speak to the microphone, the AF level meter lights up relatively to the microphone volume. If there is no sound output or the level meter does not light up, this means the system has problem and needs to be repaired.

Keep pressing the power button for 3 seconds, the receiver power be off.

How to use handheld wireless microphone correctly

- (1) The hand should hold the middle part of handheld microphone, if too close to the grille, it affects the pickup effect, if too close to the antenna position, it decreases the transmission efficiency and operation range.
- (2) Adjust the distance between microphone and mouth to increase or decrease the high and low of vocal.

B. How to use receiver correctly

- (1) When the receiver uses omni-directional antenna, ANTENNA A needs to be installed to ANT.A (625~650MHz) and ANTENNA B needs to be installed to ANT.B (650~675MHz). The antennas (especially metal) should be kept 0.5m away from the wall.
- (2) The receiving range has large change which is relative to many factors. If there is no large metal object in the transmission direction, it gains better effect.
- (3) If the receiving condition is not ideal, user can use extending cable, connect with external high gain antenna, or even antenna amplifier to increase the operation range obviously.
- (4) When the receiver panel is facing the operating direction or the receiver is put inside a metal cabinet, please install the antennas on the front panel to gain better receiving effect.

C. How to correctly use multiple sets of wireless microphones at one place

- (1) At first please select the frequency without interference. Normally, 12 transmitters can be used simultaneously in 50MHz frequency band. If more wireless microphones are wanted to be used, user needs to select the models of other frequency band.
- (2) When multiple transmitters are used simultaneously, each transmitter should be kept 20cm away to avoid mutual interference.
- (3) When multiple receivers are used simultaneously, it is recommended to install high gain antenna, antenna amplifier and receiving multi-coupler.

G 查看接收机程序版本: 当前接收机软件的版本号

操作方法:

在显示初始状态(如图⑦), 长按对应通道的“SET”键, 直至LCD字符闪动。然后松开手, 再点按五下“SET”键, LCD显示“USE”, 然后松开手, 约1秒后LCD屏自动跳转到显示软件版本号位置(如图⑦)。LCD闪动四下无操作后, 退出初始界面。



图⑦



图⑧

H 设置功能键锁定: 锁定面板功能键, 防止设置好后, 意外改变

操作方法:

在显示初始状态(如图①), 长按面板上任意一个通道的“SET”键, 直至LCD字符闪动。然后松开手, 再点按六下“SET”键, LCD显示“LOC OF”(如图⑧), 然后松开手, 点按“▲”或“▼”键。切换锁定功能开或关(LOC ON代表锁键功能开启, LOC OF代表锁键功能关闭), 无操作后, LCD闪动四下, 退出初始界面。LOC ON开启后, 初始界面上会出现一个锁的符号(如图⑨), 锁键开启后, 面板除电源键以外, 所有功能键处于锁定状态。在锁定功能开启状态下, 需要解锁时, 长按面板上任意一个通道的“SET”键, 直至LCD字符闪动。然后松开手, LCD显示“LOC ON”(如图⑨), 然后点按点按“▼”或“▲”键, 切换锁定键为关(如图8), 面板功能键解锁。



图⑨

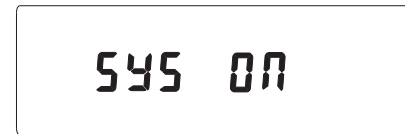


图⑩

I 红外对频功能: 可将设置好的数据(如频道\频率\模组\功率高低)发送到发射机

操作方法:

在显示初始状态(如图①), 点按面板上对应通道的“SET”键, 然后松开手, LCD显示“SYN---”(如图⑩)表示已经开始在对频状态。(注: 在对频时, 需要将对应的手持发射机拧下尾管然后开机, 将发射机上的IR位置对准接收机面板IR的位置, 距离约为: 10~30厘米, 对应成功后, 接收机的对应的LCD显示位置的RF信号强度满格)



图⑪



图⑫

J 电源键: 开启接收机的电源和让接收机进入待机状态

操作方法:

插上标配的电源适配器后, 长按面板电源(POWER)键约2秒后, LCD显示屏亮并显示“SYS ON”(如图⑪), 松开后, 接收机电源开启。需要进入待机时, 在开机状态下长按电源(POWER)键约3秒后, LCD显示“SYS OFF”(如图⑫), 松开后接收机进入待机状态。

### 3. 手持麦克风操作说明

#### A 电源开机/关机：开启/关闭手持发射机的电源

##### 操作方法：

将两节5号电池按正确的方向装到支架内，长按电源键约2秒，LCD显示屏亮，开机完成。需要关闭时，在开机的状态下，长按电源键约2秒LCD显示“OFF”然后显示屏不亮，关机完成。

#### B 手持麦克风感应功能：

1. 静音功能说明：当手咪水平放置成 $0\pm 20$ 度或 $90\pm 10$ 度（维持时间为3S）手持麦克风为静音模式。
2. 自动关机节能功能说明：当手咪水平放置成 $0\pm 20$ 度或 $90\pm 10$ 度且维持时间超过5分钟时，这时手咪会自动关机。
3. 带跌落静音功能说明：当手咪从高于地面50CM高度成自由落体运动掉在地上时，会自动静音。（注意：如果手咪是翻滚掉到地面，此时不会静音）
4. 感应功能关/开功能操作：手咪关机状态，长按手咪电源开关键10秒，LCD显示屏出现ON或OF或IHH，同时LCD背光灯闪亮，这时点按手咪电源开关键可以进行ON和OF的切换，ON代表感应功能开启，OF代表感应功能关闭，松开按键3秒后自动确认当前状态，然后退出。
5. 感应功能校准操作：手咪关机状态，长按手咪电源开关键10秒，LCD显示屏出现ON或OF或1HH，点按手咪电源并关键切显示1HH界面，松开按键把手咪水平放置桌椅上10秒，此时手咪背光灯快闪，手持自动进行校准，5秒后自动退出。

### 操作方法/正确使用方法

开机前，发射器暂勿打开，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。在未开发射器的情况下，应观察辅助显示栏的RF和AF电平表，若有强的干扰，应启用“SCAN”自动扫描避开干扰点。打开发射器电源后，对应频道的RF电平表点亮，将接收机音量调整到适当的大小，然后对麦克风发音，接收机AF电平表对应麦克风音量大小点亮。如果没有声音输出和电平表不亮，表示此系统工作不正常，必须检修。

长按电源键3秒钟，接收机电源关闭。

#### 一、如何正确使用手持无线麦克风

- (1) 手应握于麦克风中部，若太靠近网头，将会影响麦克风的拾音效果，太靠近底部天线位置，则会降低发射效率，减小使用距离。
- (2) 调节麦克风和嘴之间的距离，可以增减高低音。

your hand away, LCD displays SYN--(refer to figure ⑩) and it means it has already in the frequency matching status (Note: during frequency matching, it is necessary to disassemble the tail tube of the handheld microphone and turn it on, keep the transmitter IR position pointing to receiver IR position about 10~30cm away, after the matching is succeed, the receiver LCD displays the RF signal fully).



figure ⑩



figure ⑪

J. Power button: turn on the receiver power switch to enter into standby status.

##### Operation

After connecting with the standard power adapter, keep pressing the power button on the panel for about 2 seconds, LCD turns bright and displays SYS ON (refer to figure ⑩), move your hand away, then the receiver power is turned on. When it is necessary to enter into the standby status, keep pressing the power button for about 3 seconds, LCD displays SYS OFF (refer to figure ⑪), move your hand away and it enters into standby status.

### Handheld microphone operation

A. Power on/off: turns on/off the handheld microphone power supply.

##### Operation

Put two AA batteries into battery holder according to right polarity. Keep pressing the power button for about 2 seconds, LCD lights up, the turning on is finished. Keep pressing the power button for about 2 seconds, LCD displays OFF and LCD lights off, the turning off is finished.

#### B. Handheld microphone sense function

1. Mute function: when the handheld microphone is put horizontally  $0\pm 20$  degree or  $90\pm 10$  degree (this lasts 3S), the handheld microphone is in mute mode.
2. Auto-turning-off function: when the handheld microphone is put horizontally  $0\pm 20$  degree or  $90\pm 10$  degree and this lasts 5 minutes, the handheld microphone will be off automatically.
3. Drop-mute function: when the handheld microphone drops freely from the height 50cm above the ground, the handheld microphone will be muted automatically (Note: if the handheld microphone rolls to the ground, the handheld microphone does not mute).
4. Sense function turning on/off: when the handheld microphone is turned off, keep pressing the handheld microphone power button for 10 seconds, LCD displays ON or OF or IHH, meanwhile, LCD back-light flashes, at this moment press the handheld microphone power button to switch ON and OF, ON means the sense function is turned on, OF means the sense function is turned off, release the button for 3 seconds, then it confirms the current status automatically, then it exits.
5. Sense function calibration: when the handheld microphone is turned off, keep pressing the handheld microphone power button for 10 seconds, LCD displays ON or OF or 1HH, press the power button to switch to the interface of displaying 1HH, release the power button and put the handheld microphone horizontally on the table for 10 seconds, at this moment the handheld microphone backlight flashes quickly, the handheld microphone calibrates automatically, after 5 seconds it exits automatically.



F. Set receiver auto-scan function when turned on: the relative channel scans the non-interference frequency and selects it.

Operation:

In the initial display status (refer to figure①), keep pressing the SET button of the relative channel till LCD character flashes, then move your hand away, then press SET button four times, LCD displays SCAN (refer to figure⑥), then move your hand away, after 2 seconds LCD displays frequency changing and it means it enters into the auto-scan mode, then the receiver selects the non-interference frequency and stops, after 1 second the receiver enters into frequency matching status automatically.

G. Check the receiver program version: the current receiver software version.

Operation:

In the initial display status (refer to figure ①), keep pressing the SET button of the relative channel till LCD character flashes. Then move your hand away, press SET button five times, LCD displays USE, then move your hand away, after 1 second LCD automatically jumps to the position of showing software version (refer to figure ⑦). When there is no operation after LCD flashes four times, it exits the initial interface.



figure ⑦



figure ⑧

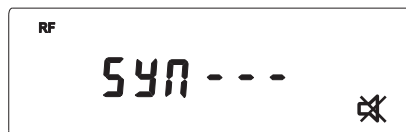
H. Set locking the function buttons: lock the function buttons on the panel to prevent from changing suddenly.

Operation:

In the initial display status (refer to figure ①), keep pressing the SET button of any one channel till LCD character flashes, then move your hand away, then press SET button six times, LCD displays LOC OF (refer to figure ⑧), then move your hand away, press ▲ or ▼ button. Switch the lock function on/off (LOC ON means the lock function is on, LOC OF means the lock function is off). After there is no operation, LCD flashes four times, it exits the initial interface. After the LOC ON is turned on, the initial interface displays a lock symbol (refer to figure⑨), after the lock function is turned on, besides the power button, all of other function buttons on the rear panel are locked. Under this situation, if need to unlock it, keep pressing the SET button of any one channel till LCD character flashes. Then move your hand away, LCD displays LOC ON (refer to figure⑨), then press ▼ or ▲ button to close the lock function (refer to figure 8), then the function buttons on the panel are unlocked.



figure⑨



figure⑩

I. Infrared matching function: it can transmit the set data (channel/frequency/channel group/high or low power) to the transmitter.

Operation:

In the initial display status (refer to figure ①), press the SET button of relative channel on the panel, then move

## 二、如何正确使用接收机

- (1) 接收机采用全向天线时，ANT.A天线需要对应天线上的ANT.A (625~650MHz)，ANT.B天线需要对应天线上的ANT.B (650~675MHz) 进行正确的安装，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部时，将天线接于前面板会有更好的接收效果。

## 三、在同一地点如何正确使用多套无线麦克风

- (1) 首先应选用无互调的频率配置，在50MHz 带宽内，通常可以同时使用12 只发射器，若需要使用更多套无线麦克风，需要配置其它频段机型。
- (2) 多套发射器共同使用时，各发射器至少相隔20cm，以免互相干扰。
- (3) 多套接收机在一起使用时，建议安装高增益天线，天线放大器和接收分路器。

## 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
音频信号背景噪声太大	接收输出电平低，也许有干扰信号或接收机未装天线，信噪比下降
音频信号失真	发射器调制频偏过大或接收机输出电平过高
使用距离较短，信号不稳定	接收机天线设置不当，周围有强电磁干扰
麦克风开机几秒后，无声音	发射机感应功能开启了且没有感知到发射机的移动（如发射机放在话筒架上）（注：感应功能操作请参照第7页）

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！

**使用/保存!** 不要把本机放在高度潮湿, 强电磁场, 强阳光直射, 高温等环境下使用或存放, 若长时间停用应把接收机电源拔下, 发射器电池取出。

**清洁:** 清洁前必须把电源插头拔下, 并使用干布清洁。不得使用任何清洁剂或溶解性液体, 否则将损伤表面加工层。

**电源:** 确保电源在使用要求的范围, 过高或过低都会影响工作。发射器装入电池时, 切勿将电池装反, 否则可能损坏机器。

**维修:** 若本机有故障或性能下降, 请不要自行拆卸外壳进行维修, 以免触电或严重损坏机器, 并失去保修权。请联系当地经销商或本公司售后服务部, 我们将竭诚为您做好。

**附件:** 请使用制造商提供的附件或认可的附件产品, 以便发挥理想性能。

**保修:** 本机未含可改装部分, 请勿自行拆开改装, 否则将失去保修权力。

## 技术参数

静音控制: 导频

调制频偏:  $\pm 75\text{KHz}$

频率响应:  $60\text{Hz}-15\text{KHz}$

频率稳定度:  $\pm 0.005\%$

信噪比:  $\geq 95\text{dB A+}$

失真度:  $\leq 0.5\%$  (at  $1\text{KHz}$ )

信道数: 两通道

灵敏度:  $\leq -90\text{dBm}$

使用距离: 50米

接收机供电: DC 12V

发射器供电: 2节 AA 电池

发射功率:  $\leq 10\text{mW}$

频率范围:  $600\sim 950\text{MHz}$  (分段)

输出方式: 独立平衡的XLR和混合6.3mm音频输出

KTV channel group step by step or quickly, then move your hand away, LCD flashes four times, then it returns back to the initial interface, then the adjustment is successful (Note: KTV preset channel group ranges 001~150, and adjust the channel group of any one side, dual sides be changed simultaneously).

C. Set the transmitter power: adjusts the preset transmitter high/low power.

Operation:

In the initial display status (refer to figure①), keep pressing the SET button of the relative channel till LCD character flashes, then move your hand away. And then press SET button, LCD will display PEA LO or PEA HI (refer to figure③), then press  $\blacktriangle$  or  $\blacktriangledown$  button to select the wanted power level (the current display content, PEA HI means high power, PEA LO means low power), then move your hand away, LCD flashes four times, and it returns to the initial interface, then the adjustment is successful (Note: this setting needs the cooperation of infrared frequency matching, after it is successful, then the data will be sent to the transmitter).



figure③



figure④

D. Set the receiver squelch sensitivity: adjust receiving signal level mute threshold.

Operation:

In the initial display status (refer to figure①), keep pressing the SET button of the relative channel till LCD character flashes, then move your hand away and press SET button two times, LCD displays SQL, then move your hand away, LCD displays -90 db flashing (refer to figure④), then press  $\blacktriangle$  or  $\blacktriangledown$  button, select the wanted sensitivity rank (the current display content), then move your hand away, LCD flashes four times, it returns to the initial interface, the adjustment is successful (adjusting range:  $-60\sim -100\text{dB}$ , If adjust to  $-60\text{dBm}$ , the distance becomes short, but the anti-interference capability turns strong. If adjust to  $-100\text{dBm}$ , the distance becomes long, but the anti-interference capability turns weak. It is recommended to adjust in a range  $-80\sim -90\text{dBm}$ ).

E. Set receiver frequency: adjust receiver TUNER frequency

Operation:

In the initial display status (refer to figure①), keep pressing the SET button of the relative channel till LCD character flashes, then move your hand away, then press SET button three times, LCD displays TUNE, then move your hand away, LCD displays  $674.500\text{ MHz}$  flashing (refer to figure⑤), then press/keep pressing  $\blacktriangledown$  or  $\blacktriangle$  to select the wanted frequency (the current display content) step by step/quickly, then move your hand away, LCD flashes four times, it returns back to the initial interface, the adjustment is successful (Note: the individual channel quantity reaches 1000).



figure⑤

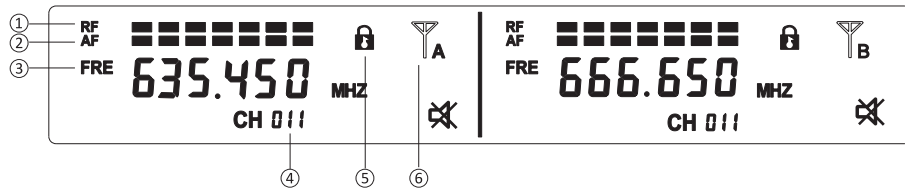


figure⑥

- (4) Microphone tube: the tube is assembled with grille and capsule on the top end, battery and PCBA inside, transmitting antenna on the other end.
- (5) Infrared matching window: presses the receiver SET button to transmit the frequency parameter to the transmitter (the infrared window is on the tube end internally).
- (6) Battery compartment: used to hold 2pcs AA batteries (please pay attention to the battery polarity).

## LCD Panel Operation

### Receiver LCD full display



- ① Level 7 RF level display: displays the receiving signal intensity.
- ② Level 7 audio level display: displays the sound signal status.
- ③ Frequency menu display: displays the current operating frequency.
- ④ KTV channel group display: displays the current operating KTV channel group.
- ⑤ Lock display: displays the locking status of the function buttons.
- ⑥ Channel selection display: displays the current operating channel.

### Receiver LCD panel operation

A. Set the Volume: + to adjust the output volume

Operation:

In the initial display status (refer to figure ①), press/keep pressing the relative channel ▲ or ▼ button to increase or decrease the volume of relative channel step by step or quickly (refer to figure ②), move your hand away, LCD flashes four times, and it returns back to the initial interface, then the adjustment is successful.

(Note: the volume level is from 00-30).



figure ①

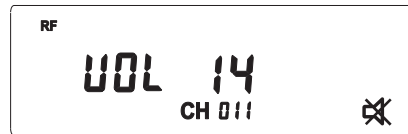


figure ②

B. Set KTV channel group: the system has 150 preset KTV channel groups.

Operation:

In the initial display status (refer to figure ①), keep pressing SET button of any one channel on the panel till LCD character flashes. Press or keep pressing ▲ or ▼ button of the selected channel to adjust the system preset

## 标准配置

G3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
AA电池	四节
使用手册	一份

## Safety Instruction

- Only use the supplied power adapter and ensure the power supply voltage meets the adapter requirement. If power adapter with other parameters is used, it may damage this unit.
- This external power adapter of this unit uses 220V AC, using other voltages may lead to fire and failure.
- Keep this unit away from high temperature, humidity, dust, liquid to avoid failure.
- Do not collide, throw, vibrate this unit to avoid damage.
- Do not disassemble or change the receiver/transmitter/power adapter. If the machine has problem, please contact the local dealer or our after-sales-department.
- During operation, if you find any abnormal phenomenon, e.g. smoke, peculiar smell, please unplug the power adapter and send the product for maintenance.
- Please keep the right polarity when loading the batteries. If the unit will not be used for a long time, please take out the batteries.
- Do not use the batteries with broken or scratched surface, otherwise this may lead to short circuit.
- If you go away from the operating unit for a long time, please turn it off and unplug the power adapter.

## Features

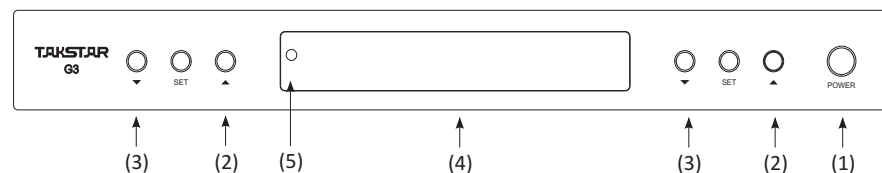
- Adopts UHF frequency band design, 2000 preset channels, multiple sets can be used simultaneously
- The receiver presets 150 groups of non-interference-channels for easily installing the KTV project
- Channel ID code detection technology effectively prevents channel crosstalk interference
- The handheld microphone adopts smart sensor control technology to automatically turn on/off the microphone according to the operation status, which effectively prevent the howling and extend the battery life
- The handheld microphone is designed with drop mute function for protecting the post audio equipments
- Professional audio companding technology, low noise and wide dynamic
- The receiver is designed with squelch sensitivity adjusting function for improving the anti-interference capability
- The transmitter is designed with power high/low adjusting function for increasing the receiving distance
- Independent XLR balanced output and 6.35mm unbalanced output for convenient connection with the post equipments

## Calibration

- It is very important to adjust the transmitter audio sensitivity correctly. The too high sensitivity leads to over-modulation and causes signal distortion. The too low sensitivity leads to insufficient modulation and decreases the S/N ratio. The handheld transmitter sensitivity has been adjusted properly during factory setting and it does not need the user to adjust.
- If the frequency has been set properly, 12pcs transmitters can be used simultaneously without interference in one frequency band and in one space, but the improper frequency setting leads to interference.
- If multiple units are used in one space, please do not overlay them during operation.

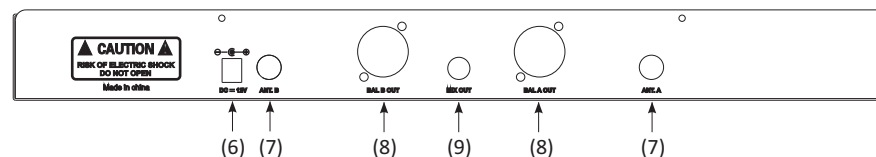
## Receiver Function and Operating Instruction

### Front Panel



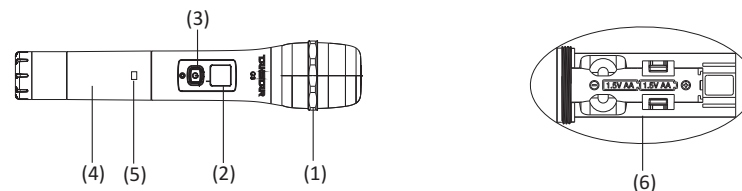
- (1) Power switch: turns on/off the power supply. The LCD lights up when the switch is turned on.
- (2) UP button: increase the output volume and select the upper menu.
- (3) DOWN button: decrease the output volume and select the next menu.
- (4) LCD: displays the frequency matching status, frequency/channel, squelch, receiving signal status, audio dynamic level.
- (5) Infrared matching window: cooperated with SET button for sending frequency parameters to the transmitter.

### Rear Panel



- (6) Power Socket: connects with 12V DC. The central pin connects with + voltage.
- (7) Antenna connector: connects with external antenna to extend operation range (ANT.A connector for for ANT.A antenna, and ANT.B connector to ANT.B antenna).
- (8) Audio balanced output: uses XLR connector, two independent channel signals.
- (9) Audio unbalanced output: uses type P connector, two mixed channel signals.

### Handheld Microphone



- (1) Grille and capsule: the grille protects the capsule and prevents the microphone from rolling on the desktop.
- (2) LCD: displays the operation frequency, battery power and high/low power.
- (3) Power switch/sensor function button: press to turn on/off the power supply and sensor function.