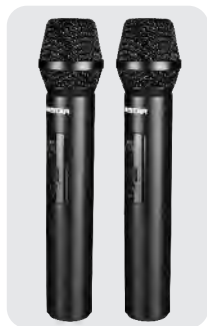


TAKSTAR® 得胜

X3HH/X3PP UHF无线麦克风

UHF wireless microphone



使用手册 User Manual

X3HH/X3PP UHF无线麦克风

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X3HH/X3PP UHF无线麦克风

■ 前言

尊敬的用户：

感谢您选购得胜X3HH&X3PP 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UHF无线麦克风专用频段设计，不受其它工业频率的干扰
- 32组频道可调节，避免频率干扰，支持多套麦克风同时使用
- 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
- 使用距离远，工作稳定可靠，空旷地带可达50米以上
- 接收机采用USB Type-C接口供电，可连接移动电源户外使用
- 发射机采用两节AA电池供电，电池使用时间长，维护、更换方便
- 具有独立的输出和混合输出，可接调音台和卡拉OK放大器

■ 适用范围

教学、培训、演讲、家庭娱乐、户外演出等

■ 包装清单

X3HH

手持麦克风.....2只
接收机.....1台
适配器（含充电线）.....1个
音频线.....1条
AA电池.....4节
使用手册.....1份

X3PP

腰挂发射器.....2只
接收机.....1台
头戴麦克风.....1只
领夹麦克风.....2只
适配器（含充电线）.....1个
音频线.....1条
AA电池.....4节
使用手册.....1份

X3HH/X3PP UHF无线麦克风

■ 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：20MHz
信道数量：64
信道间隔：300KHz
频率稳定度： $\pm 0.015\%$
动态范围： $\geq 90\text{dB A+}$
调制频偏： $\pm 48\text{KHz}$
频率响应：80Hz~18KHz
综合信噪比： $\geq 95\text{dB A+}$
综合失真： $\leq 0.5\%$ (at 1KHz)
工作温度： $-10^{\circ}\text{C}\sim+40^{\circ}\text{C}$

腰挂发射器

输出功率： $\leq 10\text{mW}$
供电：两节AA 电池
使用时间： ≥ 8 小时
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！

接收机

供电：DC 5V \approx 0.5A
音频输出方式：独立与混合
灵敏度： $\leq -90\text{dBm}$ (接线测试)
音频输出最大电平：1.2V/RMS (at 1KHz THD=1%)
尺寸 (LxWxH)：160X157X33mm
重量：475g

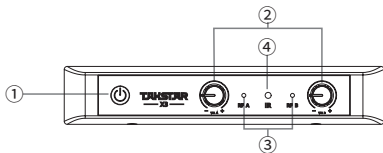
手持麦克风

输出功率： $\leq 10\text{mW}$
供电：两节AA 电池
使用时间： ≥ 8 小时
尺寸 (DxL)： $\Phi 50 \times 236\text{mm}$
重量：255g

X3HH/X3PP UHF无线麦克风

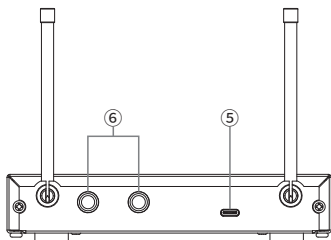
■ 功能示意

正面板



- ① 电源按键：长按2秒开启或关闭电源；开机状态下，点按进入红外对频；
- ② 音量旋钮：调整对应通道音量；顺时针旋转逐渐增大音量，逆时针旋转逐渐减少音量；
- ③ 信号指示：显示对应通道工作状态；未接收到RF信号时，常亮红灯；接收到RF信号时，亮绿灯；在对频状态下，信号灯红绿交替闪烁；
- ④ IR对频窗口：对频时接收红外对频信号；

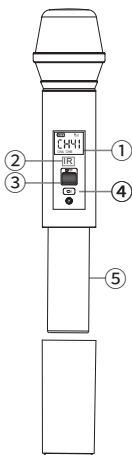
背面板



- ⑤ Type-C电源接口：连接电源适配器或外接移动电源；
- ⑥ 音频输出接口：连接OUT-A或OUT-B其中一路输出为麦克风信号混合输出；连接OUT-A和OUT-B两路输出为麦克风信号独立输出。

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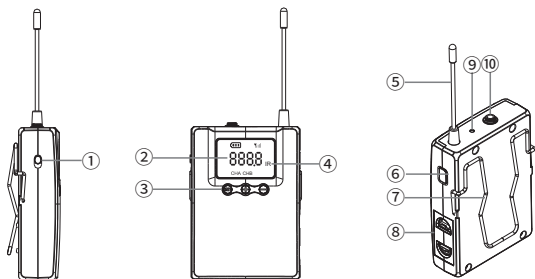
手持麦克风



- ① 显示屏：显示频率编码、信号通道、麦克风信号状态、电池电量等信息；
- ② IR对频窗口：对频时发射红外对频信号；
- ③ 电源开关：拨动开关至ON时开机，拨动开关至OFF时关机；
- ④ 调频按键：用于调整频率编码、对频操作，具体操作详见“对频操作”部分；
- ⑤ 电池仓：用于安装AA电池；

X3HH/X3PP UHF无线麦克风

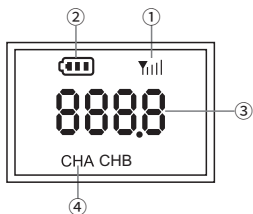
腰挂发射器



- ① AF调节：调节灵敏度高低；拨动AF开关到HIGH时，AF灵敏度调整为高，适配领夹麦克风使用；拨动AF开关到LOW时，AF灵敏度调整为低，适配头戴麦克风使用；
- ② 显示屏：显示频率编码、信号通道、麦克风信号状态、电池电量等信息；
- ③ 调频按键：包含SET键、+键、-键；用于调整频率编码、对频操作，具体操作详见“对频操作”部分；
- ④ IR对频窗口：对频时发射红外对频信号；
- ⑤ 外置天线：为1/4波长天线；
- ⑥ 电源开关：长按2秒开关机，循环点按开启或关闭静音功能；
- ⑦ 背扣：用于将发射器佩戴固定；
- ⑧ 电池仓：用于安装AA电池；
- ⑨ 静音指示灯：开启静音时，常亮红灯，关闭静音时，常亮绿灯；
- ⑩ 麦克风连接座：用于连接Ø3.5mm接口的领夹麦克风或头戴麦克风；

X3HH/X3PP UHF无线麦克风

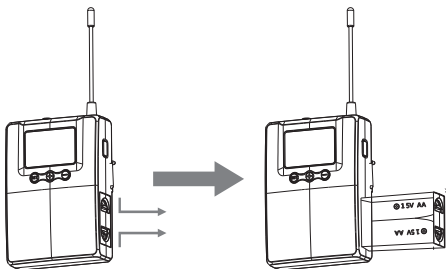
显示屏



- ① 信号符号：显示麦克风RF信号状态；
- ② 电池电量：电池电量有三格，以格数的多少来表示电池电量。电量不足时，电池符号闪烁；
- ③ 工作频率：显示当前麦克风工作频率编码，A通道显示CH01-CH32，B通道显示 CH33-CH64；
- ④ 信号通道：麦克风工作信号通道；

发射器安装

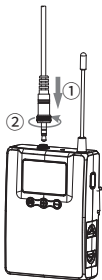
1. 安装电池：同时按压电池仓伸缩键取出电池仓；将2节AA电池按电池仓标明的正负极性安装，注意电池极性不要装反；将电池仓推送入发射器电池卡座内，直到电池仓伸缩键“哒”的一声扣紧到位；如下图A



图A

X3HH/X3PP UHF无线麦克风

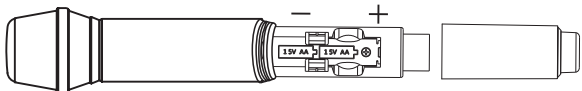
2. 将领夹麦克风插头或头戴麦克风插入麦克风连接座，并锁紧固定；如下图B



图B

手持麦克风安装

逆时针扭开麦克风尾盖，将2节AA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；然后顺时针旋紧麦克风尾盖；如下图



■ 麦克风使用方法

1. 将电源适配器或移动电源连接接收机Type-C接口；
2. 通过音频线连接音频输出接口至扩声设备（如调音台、卡拉OK放大器）麦克风输入接口；麦克风连接扩声设备时，请将扩声设备音量调整为最小，避免连接冲击声对扩声设备影响；
3. 长按2秒接收机电源开关键，接收机信号指示灯长亮红色，表示电源已开启；

X3HH/X3PP UHF无线麦克风

4. 打开手持麦克风或腰挂发射器电源开关，当接收器通道信号指示灯长亮绿色，表示与对应接收机通道（CHA或CHB）连接成功；若未连接成功，具体操作详见“对频操作”部分；
5. 使用时，根据实际情况调整接收机的音量旋钮至适当音量，控制麦克风输出音量；

■ 对频操作

产品出厂时频率已默认配对好，开机会自动连接，无需配对。如遇有信号干扰，可按下面方法进行重新调节频率及对频。

手持麦克风

开机状态下，长按手持麦克风CH按键2秒进入调频模式，待显示屏频道闪烁显示时，点按CH按键切换频率编码，每点按一次切换一个频率编码，再次长按CH按键2秒确定频率编码并自动进行对频模式，数码滚动显示“----”，将手持麦克风IR对频窗口与接收机IR对频窗口成直线相对（对频距离建议10cm-50cm之间），点按接收机电源开关进入对频模式，接收机对应通道信号红绿交替闪烁，对频成功后，接收机长常绿色。

提示：手持麦克风进入对频模式后，请在5秒内完成对频操作。若对频失败，请重新按上面方法对频。

腰挂发射器

开机状态下，长按腰挂发射器SET按键2秒进入调频模式，待显示屏频道闪烁显示时，点按+键或-键切换频率编码，每点按一次切换一个频率编码，再次长按SET按键2秒确定频率编码并自动进行对频模式，数码滚动显示“----”，将腰挂发射器IR对频窗口与接收机IR对频窗口成直线相对（对频距离建议10cm-50cm之间），点按接收机电源开关进入对频模式，接收机对应通道信号红绿交替闪烁，对频成功后，接收机长常绿色。

提示：腰挂发射器进入对频模式后，请在5秒内完成对频操作。若对频失败，请重新按上面方法对频。

■ 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

CE 根据RL2004/108/EG和European Low Voltage Directive（欧洲低电压指令）RL2006/95/EG的测试结果表明，本产品符合欧共体关于电磁兼容性的成员国法律整合的指令中所规定的限值。



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。

FC 未经合规方明确批准的变更或修改可能会使用户失去操作设备的权限。

此设备符合FCC规则第15条部分的要求。操作须符合以下两个条件：

- (1) 此设备可能不会造成有害干扰，并且，
- (2) 此设备必须接受接收到的任何干扰，包括可能导致意外操作的干扰。

■ 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，
且此标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

X3HH/X3PP UHF wireless microphone

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■ Product

Dear Customer,

Thank you for purchasing TAKSTAR X3HH&X3PP UHF wireless microphone. Please read the user manual carefully before operation and keep it for reference in future. If you have any questions or suggestions, please contact our local dealer.

■ Features

- Designed with UHF wireless microphone dedicated frequency band, free from interference from other industrial frequencies
- 32 sets of channels for adjustment to avoid frequency interference, supporting simultaneous use of multiple sets of microphones
- Infrared matching to synchronize the channels of the transmitter and the receiver with just one click
- Long operating range up to 50m in open area, reliable performance
- USB Type-C interface of the receiver to connect a mobile power supply for outdoor use
- Two AA batteries to power up the transmitter for long time operation, easy to maintain and replace
- Independent output and combo out to connect a mixer or a Karaoke amplifier

■ Application

Teaching, training, speech, home entertainment, outdoor performance, etc.

■ Product content

X3HH

Handheld microphone.....2pcs
Receiver1pc
Adapter (including
charging cable)1pc
Audio cable1pc
AA battery4pcs
User manual.....1pc

X3PP

Bodypack transmitter.....2pcs
Receiver.....1pc
Adapter (including
charging cable)1pc
Audio cable.....1pc
Headset mic.....1pc
Lavalier mic2pcs
AA battery 4pcs
User manual.....1pc

X3HH/X3PP UHF wireless microphone

■ Specification

System Specification

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

Modulation: FM

Mute Control: pilot frequency ID code

Adjustable Range: 20MHz

Frequency Band Qty: 64

Frequency Band Interval: 300KHz

Frequency Stability: $\pm 0.015\%$

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

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

Frequency Response: 80Hz~18KHz

S/N Ratio: $\geq 95\text{dB A+}$

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

Operation Temperature: $-10^{\circ}\text{C}\sim+40^{\circ}\text{C}$

Operation Range: 50m (open area)

Receiver

Power Supply: DC 5V $\approx 0.5\text{A}$

Audio Out: Independent bal XLR and unbal 6.3 combo

Sensitivity: $\leq -90\text{ dBm}$ (wiring test)

Audio Out Max Level: 1.2V/RMS (at 1KHz THD=1%)

Dimension (LxWxH): 160X157X33mm

Weight: 475g

Handheld Microphone

Output Power: $\leq 10\text{mW}$

Power Supply: two AA batteries

Operation Time: $\geq 8\text{h}$

Dimension (DxL): $\Phi 50 \times 236\text{mm}$

Weight: 255g

Bodypack Transmitter

Output Power: $\leq 10\text{mW}$

Power Supply: two AA batteries

Operation Time: $\geq 8\text{h}$

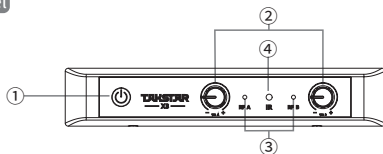
Dimension (LxWxH): 100x64x24.5mm

Weight: 80g

Note: The data is tested by Takstar laboratory and Takstar has the final interpretation right!

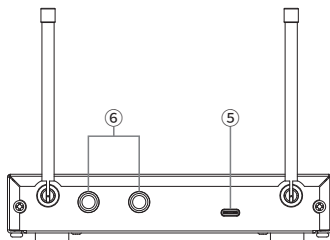
■ Function instruction

Front panel



- ① Power button: Keep pressing it for 2 seconds to turn on/off the mic. When the mic is on, press it for infrared matching.
- ② Volume knob: Adjust the volume of the corresponding channel; turn clockwise to gradually increase the volume, and turn counterclockwise to gradually decrease the volume.
- ③ Signal LED: Display the working status of the corresponding channel. When the RF is not received, it keeps lighting up red; when the RF is received, it lights up green. During frequency matching, it flashes red and green.
- ④ IR matching window: Receive infrared matching signal during matching.

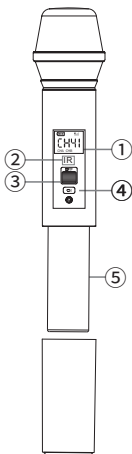
Rear panel



- ⑤ Type-C connector/interface: Connect a power adapter or a mobile power supply.
- ⑥ Audio output connector/interface: Connect OUT-A or OUT-B to output the mixed microphone signal; connect OUT-A and OUT-B to independently output the microphone signal.

X3HH/X3PP UHF wireless microphone

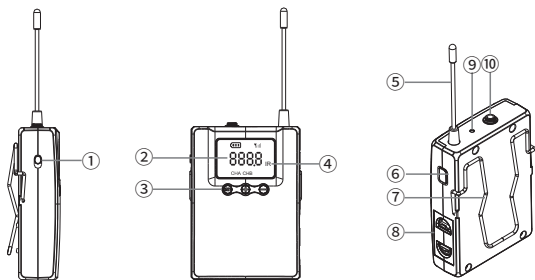
Handheld microphone



- ① Display screen: Display frequency code, signal channel, microphone signal status, battery power and other information.
- ② IR matching window: Transmit infrared matching signal when matching frequency.
- ③ Power switch: Turn on when the switch is in the "ON" position, and turn off when the switch is in the "OFF" position.
- ④ Frequency modulation button: It is used to adjust frequency code and match frequency. Refer to the "frequency matching operation" for details.
- ⑤ Battery compartment: It is used to install AA batteries.

X3HH/X3PP UHF wireless microphone

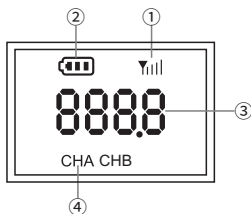
Bodypack transmitter



- ① AF adjustment: Adjust the sensitivity level. When the AF switch is turned to HIGH, the AF sensitivity is adjusted to high level suitable for lavalier microphones; when the AF switch is turned to LOW, the AF sensitivity is adjusted to low level suitable for headset microphones.
- ② Display screen: Display frequency code, signal channel, microphone signal status, battery power and other information.
- ③ Frequency modulation buttons: Include SET, +, and - buttons. It is used to adjust frequency code and match frequency. Refer to the "frequency matching operation" for details.
- ④ IR matching window: Transmit infrared matching signal when matching frequency.
- ⑤ External antenna: 1/4 wave antenna.
- ⑥ Power switch: Press it for 2 seconds to turn on/off the microphone, and click/tap it to turn on/off the mute function.
- ⑦ Belt buckle: It is used to fix the transmitter.
- ⑧ Battery compartment: It is used to install AA batteries.
- ⑨ Mute indicator: When the mute function is turned on, the indicator lights up red; when the mute function is turned off, the indicator lights up green.
- ⑩ Microphone connector: It is used to connect $\Phi 3.5\text{mm}$ lavalier microphones or headset microphones.

X3HH/X3PP UHF wireless microphone

Display screen



- ① Signal symbol: Display the status of the microphone RF signal.
- ② Battery power: The battery power has three bars, and the number of bars represents the battery power. When the battery is low, the battery symbol flashes.
- ③ Working frequency: Display the current working frequency code of the microphone. Channel A displays CH01-CH32, and channel B displays CH33-CH64.
- ④ Signal channel: working signal channel of the microphone.

Transmitter installation

1. Install the battery: Press the retractable button to take out the battery compartment, install 2 AA batteries according to the positive and negative polarity marked on the battery compartment (pay attention not to install the batteries reversely), and push the battery compartment into the battery holder of the transmitter until the retractable button is fastened in place with a "click" sound as shown in Figure A.

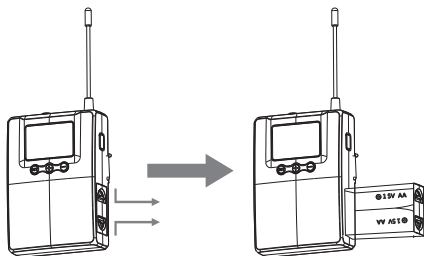


Figure A

X3HH/X3PP UHF wireless microphone

2. Insert the lavalier microphone or headset microphone into the microphone connector, and lock it firmly as shown in Figure B.

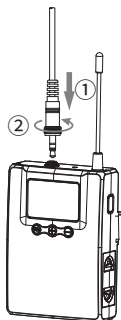
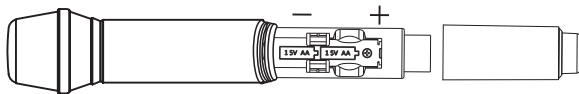


Figure B

Handheld microphone installation

Open the microphone tail cover counterclockwise, install 2 AA batteries according to the positive and negative polarity marked on the battery compartment (pay attention not to install the batteries reversely), and tighten the microphone tail cover clockwise as shown below.



■ Microphone Operation

1. Connect the power adapter or mobile power supply to the Type-C interface of the receiver.
2. Connect the audio output interface to the microphone input interface of the sound reinforcement equipment (such as mixer, karaoke amplifier) through the audio cable. When the microphone is connected to the sound reinforcement equipment, please adjust the volume of the equipment to the minimum to avoid impact on the equipment when connected.
3. Press the receiver's power button for 2 seconds, and its signal indicator lights up red, indicating that the power is on.
4. Turn on the power switch of the handheld microphone or bodypack transmitter. When the channel signal indicator of the receiver lights up green, it means that the connection with the corresponding receiver channel (CHA or CHB) is successful; if the connection is not successful, refer to the "Frequency matching operation" for details.
5. When in use, adjust the receiver's volume knob to an appropriate position according to the actual situation to control the microphone's output volume.

■ Frequency matching operation

When the product leaves the factory, the frequency has been matched by default. The connection is automatic when the product is turned on. In case of signal interference, you can readjust and match the frequency as follows.

X3HH/X3PP UHF wireless microphone

Handheld microphone

In the power-on state, press the CH button of the handheld microphone for 2 seconds to enter the frequency modulation mode. When the channel on the display screen is flashing, click the CH button to switch the frequency code, and each click switches a frequency code. Press the CH button again for 2 seconds to confirm the frequency code and enter the automatic frequency matching mode with digital scrolling display "----". Align the IR matching window of the handheld microphone with the IR matching window of the receiver in a straight line (the matching distance is recommended to be between 10cm-50cm). Click the power switch of the receiver to enter the frequency matching mode, and the corresponding channel signal of the receiver flashes red and green. After the matching is successful, the receiver lights up green.

Note: After the handheld microphone enters the frequency matching mode, please complete the operation within 5 seconds. If the matching fails, please repeat the above steps.

Bodypack transmitter

In the power-on state, press the SET button of the bodypack transmitter for 2 seconds to enter the frequency modulation mode. When the channel on the display screen is flashing, click the "+" or "-" button to switch the frequency code, and each click switches a frequency code. Press the SET button again for 2 seconds to confirm the frequency code and enter the automatic frequency matching mode with digital scrolling display "----". Align the IR matching window of the bodypack transmitter with the IR matching window of the receiver in a straight line (the matching distance is recommended to be between 10cm-50cm). Click the power switch of the receiver to enter the frequency matching mode, and the corresponding channel signal of the receiver flashes red and green. After the matching is successful, the receiver lights up green.


Note: After the bodypack transmitter enters the frequency matching mode, please complete the operation within 5 seconds. If the matching fails, please repeat the above steps.

■ Safety instruction

In order to avoid possible personal injury or property damage caused by electric shock, high temperature, fire, radiation, explosion, mechanical hazards and improper use, please read and observe the following items carefully before using the product.

1. When using the product, please confirm whether the power of the connected device matches the power of the product, and adjust the volume of the device. Do not use it for a long time when the power of the product is exceeded or at a high volume to avoid product failure and hearing damage.
2. If there is any abnormality (such as smoke, odor, etc.) during use, please turn off the power switch and unplug the power plug immediately, and then send the product to the dealer for maintenance.
3. If the product needs to use removable batteries, it is strictly forbidden to use batteries with damaged insulation materials. Please do not charge non-rechargeable batteries.
4. Discarded batteries must be placed in designated classified garbage bins, and cannot be used as children's toys or discarded directly to avoid potential safety hazards or environmental impact.
5. If you don't use the product 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 placed indoors in a dry and ventilated place. Do not store them in a humid and dusty environment for a long time. Avoid getting close to fire, rain, water, excessive collision, throwing, vibrating the machine and covering the ventilation holes during use, so as not to damage its function.
7. If the product needs to be fixed on the wall or ceiling, please make sure to fix it in place to prevent it from falling down.
8. When using the product, you must abide by the relevant safety regulations. Please do not use the product in the occasions that are clearly prohibited by laws and regulations to avoid accidents.
9. Please do not disassemble, refit or repair the product by yourself to prevent personal injury. If you have any questions or service needs, please contact the local dealer for follow-up.

■ The meaning of Icon

 According to the test results of RL2004/108/EG and European Low Voltage Directive RL2006/95/EG, the product complies with the limit specified in the directives of the European Community on the integration of the laws of the member states of electromagnetic compatibility.



This symbol indicates that according to the WEEE Directive (2012 / 19 / EU) and national laws, this product should not be disposed of together with your household waste, and should be returned to an authorized recycling station of electrical and electronic equipment (WEEE) for recycling, because this type of waste has potential harmful substances that may have a negative impact on the environment and human health. Meanwhile, when this product is disposed of properly, it is conducive to 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 Department.

FC NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.



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