

SHURE®

LEGENDARY
PERFORMANCE™

Shure KCX Wireless


KCX Wireless System


KCX 无线系统



SAFETY PRECAUTIONS

The possible results of incorrect use are marked by one of the two symbols - "WARNING" AND "CAUTION" - depending on the imminence of the danger and the severity of the damage.

 **WARNING:** Ignoring these warnings may cause severe injury or death as a result of incorrect operation.

 **CAUTION:** Ignoring these cautions may cause moderate injury or property damage as a result of incorrect operation.

WARNING

- If water or other foreign objects enter the inside of the device, fire or electric shock may result.
- Do not attempt to modify this product. Doing so could result in personal injury and/or product failure.


WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm


CAUTION

- Never disassemble or modify the device, as failures may result.
- Do not subject to extreme force and do not pull on the cable or failures may result.
- Keep the microphone dry and avoid exposure to extreme temperatures and humidity.

安全事项

根据危险程度和损坏严重性的不同，使用“警告”和“小心”对未正确使用可能导致的后果做出标识。

 **警告：**如果没有遵循这些警告事项，在操作不正确的情况下可能会导致严重的人身伤亡事故。

 **小心：**如果没有遵循这些小心事项，在操作不正确的情况下可能会导致常见的人身伤害或财产损失。

警告

- 如果有水或其他异物进入设备内部，可能会导致起火或触电事故。
- 不要尝试改装本产品。这样做会导致人身伤害和/或产品故障。

小心

- 不要拆开或改装设备，这样可能会导致故障。
- 不要用力过大，不要拉扯线缆，否则会导致故障。
- 应让话筒保持干燥，并避免暴露在极高的温度和湿度下。

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
印制电路板	X	○	○	○	○	○
机器加工金属部件	X	○	○	○	○	○
其他附属部件	X	○	○	○	○	○

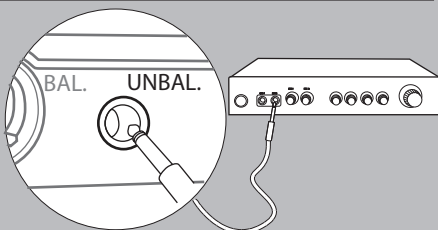
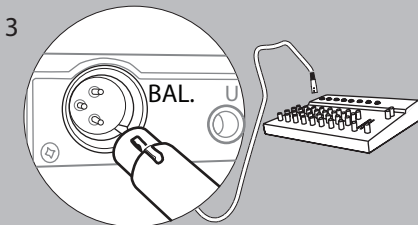
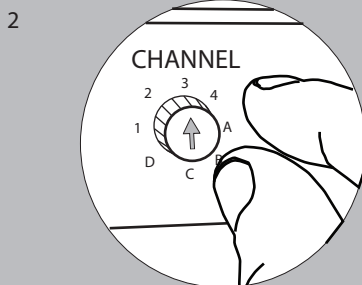
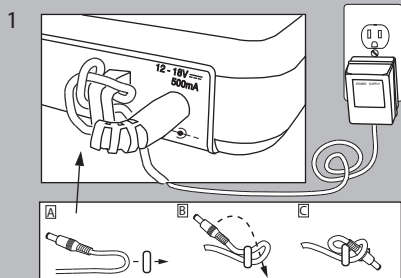
○: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 规定的限量要求以下
 X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 规定的限量要求



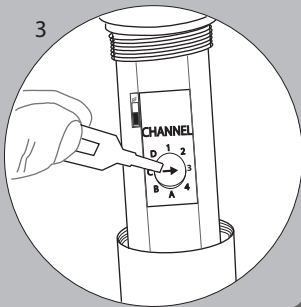
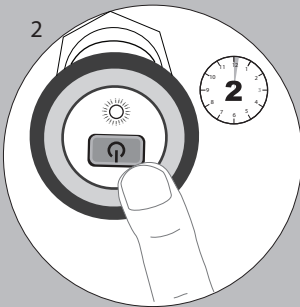
Quick Setup

快速设置

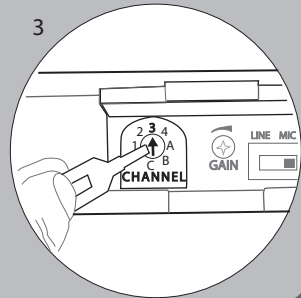
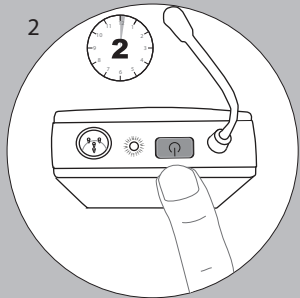
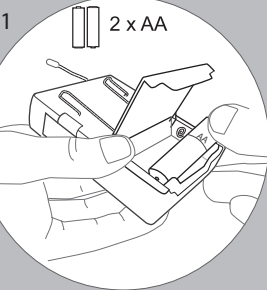
KCX4



KCX2



KCX1

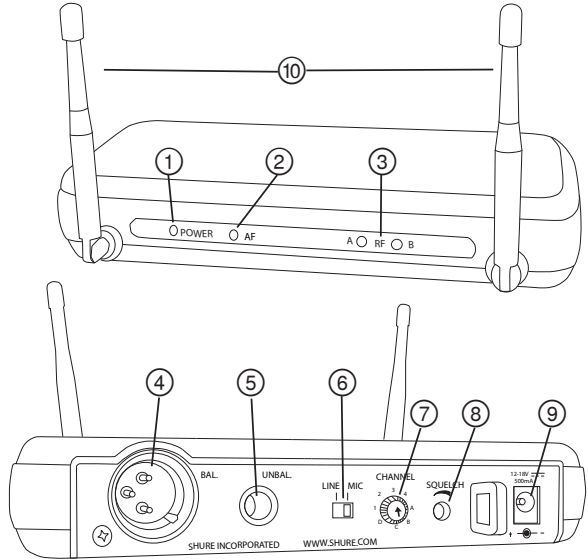


Shure KCX Wireless

Congratulations on purchasing your KCX Wireless system from Shure. Shure professional audio products deliver legendary sound quality, stage-proven durability and hassle-free setup. The KCX Wireless System comes with your choice of microphone complete with all the accessories you need. For performers that manage their own sound and desire the freedom of wireless, nothing could be more versatile or easy to operate. Affordable replacement parts and a rugged housing make this an ideal investment for years of confident performance.

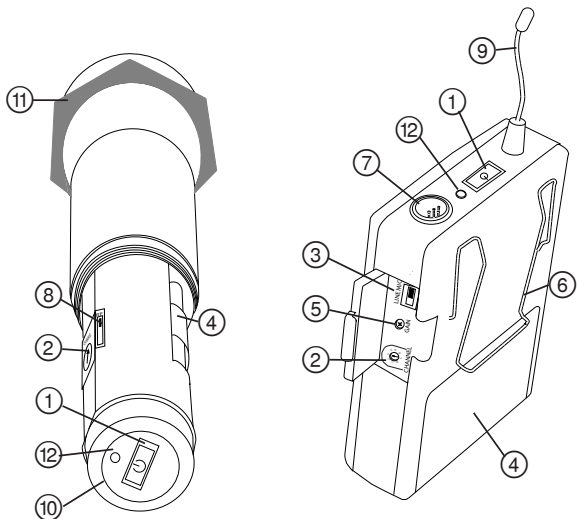
Receiver

- ① Power LED light
- ② Audio Frequency LED light
- ③ Radio Frequency Diversity lights
- ④ Balanced output (XLR connector)
- ⑤ Unbalanced output (6.35mm connector)
- ⑥ Audio output level (line/mic) switch
- ⑦ Channel selection dial
- ⑧ Squelch dial
- ⑨ Power adapter input
- ⑩ Antennas



Transmitter

- ① Power button
- ② Channel selection dial
- ③ Audio input level (line/mic) switch
- ④ Battery compartment
- ⑤ Transmitter gain dial
- ⑥ Belt clip
- ⑦ Mic input (PG185 Lavalier or PG30 Headworn)
- ⑧ Radio Frequency (RF) level switch
- ⑨ Antenna
- ⑩ Color ID rings
- ⑪ Anti-roll ring
- ⑫ Power LED light



System Components

All Systems

- KCX4 Receiver
- Channel Selector Tool

Handheld Transmitter

- KCX2 Handheld Microphone Transmitter

Bodypack Transmitter

- KCX1 Bodypack Transmitter
- Microphone
 - PG185 Lavalier microphone
 - OR**
 - PG30 Headworn microphone

Power

Plug in the power adapter to turn on the receiver. There is no power switch.

Insert 2 AA batteries into the transmitter. Hold the power button for two seconds to turn on.

Connecting to a Sound System

Connect the balanced XLR output on the receiver to a MIC or LINE input. Set the LINE MIC switch accordingly.

If there is no XLR input, connect the unbalanced 6.35 mm (1/4 inch) receiver output to a LINE input. Set the LINE MIC switch to LINE.

Channel

Set the transmitter and the receiver to the same frequency using the channel dial.

Note: If using a dual system (or more than one single system), assign each input to a different channel within the same group (channels 1-4 or channels A-D). This ensures the best signal quality.

Bodypack Gain

The gain dial controls the audio volume sent to the receiver.

- Turn down the gain if the audio signal sounds distorted.
- Turn up the gain if the AF LED light is faint or the audio is too low.

RF Level

This switch sets the RF level of the handheld transmitter. It does not affect the audio volume.

- Set to LO to avoid interfering with other receivers when in a building with multiple systems.
- Set to HI for transmitting over a greater distance when using a single system.

Squelch

Squelch controls the amount of RF signal that the receiver picks up.

- Turn up the squelch dial (clockwise) to remove ambient noise from unwanted RF sources.
- Turn down the squelch dial (counterclockwise) if the microphone is not transmitting clearly to the receiver.

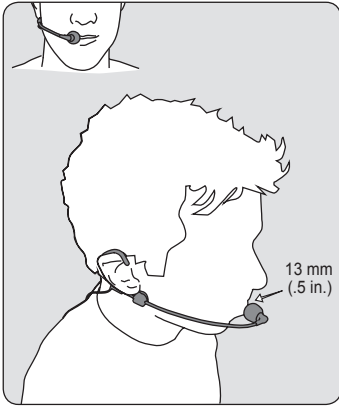
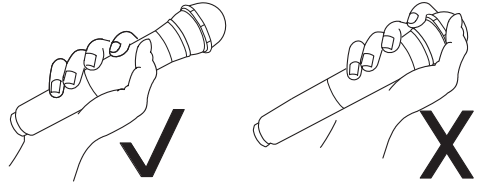
Color ID Rings

Slide these color rings over the handle of the microphone to identify them. (Sold in a package of six as an optional accessory.)

Getting Good Sound

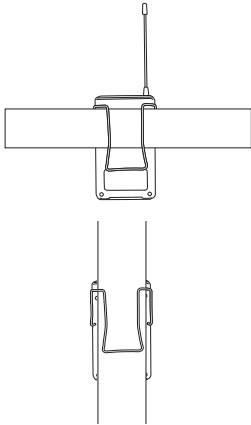
Correct Microphone Placement

- Hold the microphone within 12 inches from the sound source. For a warmer sound with increased bass presence, move the microphone closer.
- Do not cover grille with hand.



Wearing the Headworn Microphone

- Position the headworn microphone 13 mm (1/2 in.) from the corner of your mouth.
- Position lavalier and headworn microphones so that clothing, jewelry, or other items do not bump or rub against the microphone.



Wearing the Bodypack Transmitter

- Clip the transmitter to a belt or pocket.
- For best results, the belt should be pressed against the base of the clip.

Wireless Tips to Improve System Performance

If you encounter wireless interference or dropouts, try the following suggestions:

- Replace the transmitter batteries
- Choose a different frequency channel
- Reposition the antennas so there is nothing obstructing a line of sight to the transmitter (including the audience)
- Avoid placing transmitter and receiver where metal or other dense materials may be present
- Move the receiver to the top of the equipment rack
- Remove nearby sources of wireless interference, such as cell phones, two-way radios, computers, media players, and digital signal processors
- Keep transmitters more than two meters (6 feet) apart
- Keep the transmitter and receiver more than 5 meters (16 feet) apart
- Keep them away from large metal objects
- During sound check, mark trouble spots and ask presenters or performers to avoid those areas

Troubleshooting

Problem	Solution
No sound	<ul style="list-style-type: none"> • Check the power supply of the microphone and receiver. • Ensure that the batteries are inserted correctly. • Set the transmitter and receiver to the same channel. • Check that the receiver is connected to the input on the audio mixer or amplifier. • Check that the transmitter is not too far away from the receiver. • Decrease (counterclockwise) the squelch. • Set the bodypack audio input switch to MIC. • Make sure that the receiver has a clear, line-of-sight path to the transmitter. • Keep the receiver away from metal objects.
Noise from RF interference	<ul style="list-style-type: none"> • Replace the transmitter batteries. • Check the receiver antenna location. Make sure there is a clear path between the receiver and the transmitter. • When using two or more systems simultaneously, chose different channels within the same group (channels 1-4 or channels A-D). • Turn off or relocate possible sources of interference such as cell phones, radios, or other electronic devices. • Increase squelch (clockwise) to restrict the receiver from picking up ambient noise. • Unplug any unused receivers
Audio distortion	<ul style="list-style-type: none"> • Adjust levels on the mixer board or sound system. • Make sure all cables are securely connected from the receiver to the sound system. • If using a bodypack transmitter, lower the gain settings.

ACCESSORIES AND PARTS

Optional Accessories

Color Rings (6)	WACR
Single Channel Rack Mount Kit	WASRM
Dual Channel Rack Mount Kit	WADRM

Replacement Parts

Channel Key	53A14226
Microphone Stand Adapter	95A14227
PS21 Power Supply	95A14220

PG28

PG28 Grille	95A14370
PG28 Capsule	95A14372
PG28 Handheld Transmitter Body	95A14371

PG58

PG58 Grille	95A14223
PG58 Capsule	95A14374
PG58 Handheld Transmitter Body	95A14422

See your local Shure distributor for assistance

Frequency Chart

Band	Range (MHz)
P12	698–710
P13	698–710
P14	710–726
P15	710–726
P16	726–742
P17	726–742
Q16	742–758
Q17	742–758
Q18	758–774
Q19	758–774
R23	774–787
R24	774–787

NOTE:

This Radio equipment is intended for use in musical professional entertainment and similar applications.

This Radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies and RF power levels for wireless microphone products.

SPECIFICATIONS

Working Range (Line of Sight)

HI power mode: 75 m (250 ft)

LO power mode: 18 m (60 ft)

Note: Actual range depends on RF signal absorption, reflection and interference.

Audio Frequency Response

50 Hz to 15 kHz

Note: Dependent on microphone type

Total Harmonic Distortion (Ref. ± 48 kHz deviation, 1 kHz tone)

<1%

Dynamic Range

90 dB A-weighted, typical

Operating Temperature Range

-10°C (14°F) to 50°C (122°F)

Note: Battery characteristics may limit this range.

Transmitter Audio Polarity

Positive pressure on microphone diaphragm produces positive voltage on pin 2 (with respect to pin 3 of XLR output) and the tip of the 6.35 mm (1/4-inch) output.

KCX1 Bodypack Transmitter

Audio Input Level

MIC: -7 to -15 dBV

LINE: 9 to 1 dBV

Gain Adjustment Range

8 dB

Input Impedance

MIC setting: 16 k Ω

LINE setting: 120 k Ω

RF Output (dependent on applicable country regulations)

10 mW maximum

Dimensions

108 mm X 64 mm X 19 mm (4.25in. X 2.50in. X 0.75in.)

Weight

90 g (without batteries)

Housing

Molded ABS

Power Requirements

2 "AA" size alkaline or rechargeable batteries

Battery Life

up to 10 hours (alkaline)

KCX2 Handheld Transmitter

Audio Input Level

-20 dBV maximum

Input Impedance

22 k Ω

RF Output (dependent on applicable country regulations)

HI power mode: 10 mW maximum

LO power mode: 1 mW maximum

Dimensions

254 mm X 51 mm diameter (10in. X 2 in.)

Weight

270 g (10.2 oz.) (without batteries)

Housing

Molded ABS

Power Requirements

2 "AA" size alkaline or rechargeable batteries

Battery Life

up to 10 hours (alkaline)

KCX4 Receiver

Dimensions

32 mm X 168 mm X 104.5 mm (1.26 in. x 6.625 in. x 4.2 in.)

Weight

245 g (11.5 oz.)

Housing

Molded ABS

Audio Output Level (Ref. ± 48 kHz deviation with 1 kHz tone)

XLR connector into 100 k Ω load: -19 dBV

6.35 mm (1/4") connector into 100 k Ω load: -5 dBV

Output Impedance

XLR connector: 600 Ω

6.35 mm (1/4") connector: 600 Ω Ref. ± 48 kHz deviation with dual-sine: 1 kHz tone + 17% 32.768 kHz pilot

Sensitivity

-105 dBm for 12 dB SINAD, typical

Image Rejection

>50 dBm, typical

Power Requirements

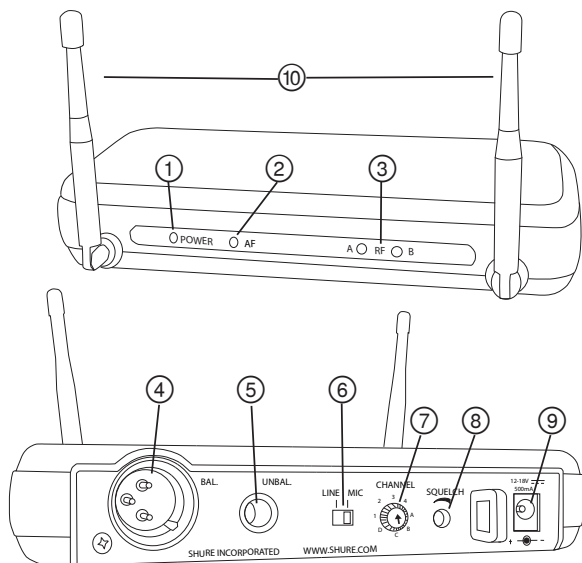
12 to 18 V DC @ 130 mA, supplied by external power supply

Shure KCX 无线系统

恭喜您购买了 Shure 的 KCX Wireless 系统。Shure 专业音响产品能够提供出色的音响质量，在舞台上经久耐用，让您的演出轻松自如。KCX 无线系统配备了话筒需要的所有附件。本话筒特别适用于想要自己调节音色，并且需要无线自由操控的表演者，它的功能丰富，操作简单。经济耐用的配件和坚固可靠的外壳，是让您建立多年演出信心的理想投资。

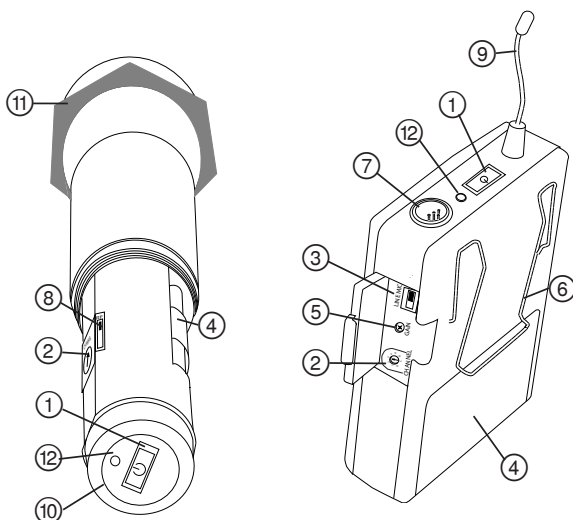
接收机

- ① 电源指示灯
- ② 音频指示灯
- ③ 射频指示灯
- ④ 平衡输出 (XLR 接口)
- ⑤ 非平衡输出 (6.35 毫米接口)
- ⑥ 音频输出电平 (线路/话筒) 开关
- ⑦ 频道选择旋钮
- ⑧ 静噪旋钮
- ⑨ 电源适配器输入
- ⑩ 天线



发射机

- ① 电源按钮
- ② 频道选择旋钮
- ③ 音频输入电平 (线路/话筒) 开关
- ④ 电池舱
- ⑤ 发射机增益旋钮
- ⑥ 皮带夹
- ⑦ 话筒输入 (PG185 领夹式或 PG30 头戴式)
- ⑧ 射频 (RF) 电平开关
- ⑨ 天线
- ⑩ 颜色标识环
- ⑪ 防滚环
- ⑫ 电源指示灯



系统配件

所有系统

- KCX4 接收机
- 频道选择工具

手持式发射机

- KCX2 手持式话筒发射机

腰包发射机

- KCX1 腰包发射机
- 话筒
 - PG185 领夹式话筒
 - 或
 - PG30 头戴式话筒

电源

插上电源适配器将接通接收机电源。本设备没有电源开关。

在发射机中插入 2 节 AA 电池。按住电源按钮，并保持两秒，将电源打开。

连接到音响系统

将接收机上的平衡 XLR 输出连接到 MIC 或 LINE 输入。将 LINE MIC（线路话筒）开关设置在相应位置。

如果没有 XLR 输入，应将非平衡 6.35 毫米（1/4 英寸）接收机输出连接到 LINE（线路）输入。将 LINE MIC（线路话筒）开关设置在 LINE（线路）位置。

Channel（频道）

使用 channel（频道）旋钮将发射机和接收机设置在相同频率。

注意：如果使用双系统或多个单系统，应将每项输入分配到相同组内的不同频道（频道 1-4 或频道 A-D）。这样可以确保获得最佳信号质量。

腰包增益

增益旋钮可以控制发送到接收机的音量。

- 如果音频信号出现失真，应降低增益。
- 如果 AF 指示灯暗淡或音频信号过低，应提高增益。

静噪

静噪功能用于控制接收机拾取的无线电射频信号数量。

- 向上转动静噪旋钮（顺时针），可排除来自不必要的射频源的环境噪声。
- 如果话筒没有清晰地将信号发射到接收机，应向下（逆时针）转动静噪旋钮。

射频电平

此开关用于设置手持式发射机的射频电平，但是不会影响音量。

- 如果使用多个系统，应设置为 LO 可以避免对其它接收机的干扰。
- 如果使用单个系统，设置为 HI 可在更远距离上传输信号。

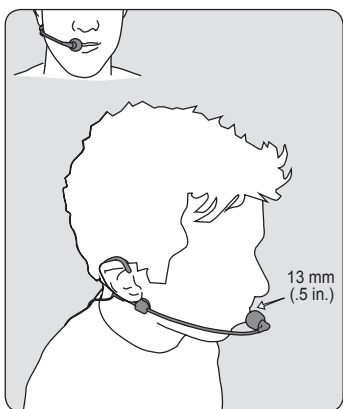
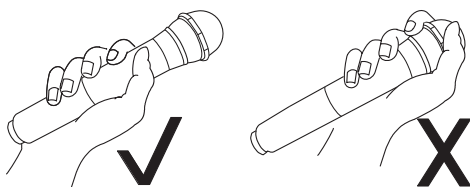
颜色标识环

滑动话筒把手上的这些颜色环，可为它们设置标记。（颜色环作为选配件以一组六个为单位出售。）

获得良好音质

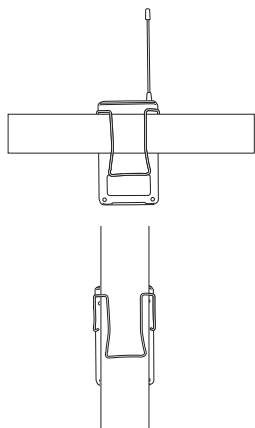
正确持握话筒

- 将话筒保持在距离音源 12 英寸的位置。如需获得较多低音、温暖的声音，则应将话筒移近。
- 不要用手罩住滤网。



佩戴头戴式话筒

- 将头戴式话筒放置在距离嘴部 13 毫米 (0.5 英寸) 的位置。
- 调节领夹式和头戴式话筒的位置，避免衣物、首饰或其它物品摩擦或碰撞到话筒。



腰包发射机的佩戴

- 将发射机夹在皮带或口袋上。
- 为获得最佳效果，应将皮带固定在夹子的底座上。

可提高系统性能的无线使用提示

如果遇到无线干扰或信号中断，应尝试下列操作：

- 更换发射机电池
- 选择不同的频道
- 调整天线位置，让发射机在视线范围内没有任何障碍物（包括观众）
- 不要在有金属或其它高密度材料的地方放置发射机和接收机
- 将接收机移动到设备机架顶部
- 应排除附近的手机、双向无线电、计算机、媒体播放器和数字信号处理器等无线干扰源
- 应让发射机之间的距离保持在两米（6英尺）以上
- 应让发射机与接收机至少保持5米（16英尺）距离
- 应让设备远离体积较大的金属物
- 在进行声音检测过程中，应标记“盲点”，并提示讲演者或演出者避开这些区域

故障排除

故障	解决方法
无声音	<ul style="list-style-type: none">• 检查话筒和接收机的电源。• 确保已正确插入电池。• 将发射机和接收机设置在相同频道。• 检查发射机是否已连接到混音器或放大器的输入端。• 检查发射机是否距离接收机过远。• 降低（逆时针）静噪水平。• 将腰包音频输入开关设置在 MIC（话筒）位置。• 确保接收机到发射机的通路清晰而没有障碍。• 让接收机远离金属物体。
无线电射频噪声干扰	<ul style="list-style-type: none">• 更换发射机电池。• 检查接收机天线位置。确保接收机与发射机之间的通路没有障碍。• 在同时使用两个或多个系统时，应选择相同组中的不同频道（频道 1-4 或频道 A-D）。• 关闭或调整手机、对讲机或其它电气设备干扰源的位置。• 提高静噪（顺时针旋转），可限制接收机拾取环境噪声。• 将未使用接收机的电源插头拔下
音频失真	<ul style="list-style-type: none">• 调节混音器面板或音响系统的电平。• 确保所有电缆已从接收机可靠地连接到音响系统。• 如果使用腰包发射机，应将增益设置降低。

附件和替换备件

可选配附件

颜色环 (6)	WACR
单通道机架固定件	WASRM
双通道机架固定件	WADRM

替换备件

频道键	53A14226
话筒座转接器	95A14227
PS21 电源部件	95A14220

PG28

PG28 金属网罩	95A14370
PG28话芯	95A14372
PG28话筒外壳	95A14371

PG58

PG58金属网罩	95A14223
PG58话芯	95A14374
PG58话筒外壳	95A14422

请联系您当地的 Shure 分销商以寻求帮助。

频率表

频段	范围 (MHz)
P12	698–710
P13	698–710
P14	710–726
P15	710–726
P16	726–742
P17	726–742
Q16	742–758
Q17	742–758
Q18	758–774
Q19	758–774
R23	774–787
R24	774–787

注释:

本无线电设备为专业音乐演出及其他类似场合而设计。

本无线电设备可能具有使用您所在地区未经授权的频率的能力。请与 您所在国的相关机构联系，以获得有关您所在地区无线话筒授权使用频率的信息。

规格

工作范围 (可视)

高功率模式: 75 米 (250 英尺)

低功率模式: 18 米 (60 英尺)

注意: 实际范围与射频信号的吸收、反射和干扰相关。

音频响应

50 赫兹 到 15 千赫兹

注意: 取决于话筒类型

总谐波失真 (参考 ± 48 千赫偏移, 1 千赫音频)

<1%

动态范围

90 dB (A-加权, 典型值) 典型

工作温度范围

-10°C (14°F) 到 50°C (122°F)

注意: 电池特性可能会限制该范围。

发射机音频极性

对话筒隔膜的正压会在 2 芯上和 6.35 毫米 (1/4 英寸) 输出的尖端上产生 (相对于 XLR 输出的 3 芯) 的正电压。

KCX1 腰包发射机

音频输入电平

MIC: -7 到 -15 dBV

LINE: 9 到 1 dBV

增益调整范围

8 dB

输入阻抗

MIC 设置: 16 k Ω

LINE 设置: 120 k Ω

射频输出 (取决于相应的国家法规)

10 mW 最大值

外观尺寸

108 毫米 X 64 毫米 X 19 毫米 (4.25 英寸 X 2.50 英寸 X 0.75 英寸)

重量

90 克 (无电池)

外壳

ABS 铸模

电源要求

2 节“AA”型碱性电池或充电电池

电池使用时间

最大 10 小时 (碱性电池)

KCX2 手持式发射机

音频输入电平

-20 dBV 最大值

输入阻抗

22 k Ω

射频输出 (取决于相应的国家法规)

高功率模式: 10 mW 最大值

低功率模式: 1 mW 最大值

外观尺寸

254 毫米 X 51 毫米 直径 (10 英寸 X 2 英寸)

重量

270 克 (10.2 盎司)(无电池)

外壳

ABS 铸模

电源要求

2 节“AA”型碱性电池或充电电池

电池使用时间

最大 10 小时 (碱性电池)

KCX4 接收机

外观尺寸

32 毫米 X 168 毫米 X 104.5 毫米 (1.26 英寸 x 6.625 英寸 x 4.2 英寸)

重量

245 克 (11.5 盎司)

外壳

ABS 铸模

音频输出电平 (参考 ± 48 千赫偏移, 1 千赫音频)

XLR 接口连接 100 k Ω 负载: -19 dBV

6.35 毫米 (1/4 英寸) 接口连接 100 k Ω 负载: -5 dBV

输出阻抗

XLR 接口: 600 Ω

6.35 毫米 (1/4 英寸) 接口: 600 Ω 参考双正弦波 ± 48 千赫偏移: 1 千赫音频 + 17% 32.768 千赫导频

灵敏度

-105 dBm 对应 12 dB SINAD, 典型

镜频抑制

>50 dBm, 典型

电源要求

12 到 18 V DC @ 130 mA, 由外部电源供电

