


# SHURE®


LEGENDARY  
PERFORMANCE™

## KCX



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.

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.

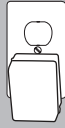
" " " "



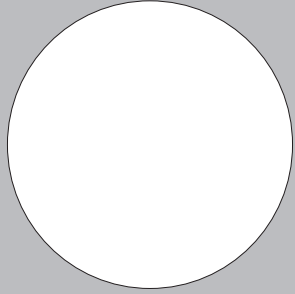
	(Pb)	(Hg)	(Cd)	Cr (VI)	PBB	PBDE
	X	O	O	O	O	O
	X	O	O	O	O	O
	X	O	O	O	O	O
O: SJ/T 11363-2006 X: SJ/T 11363-2006						



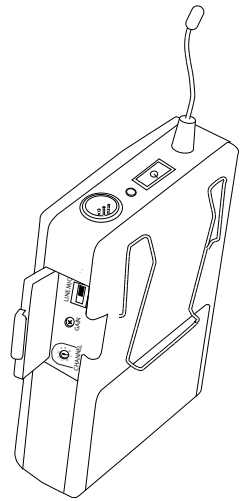
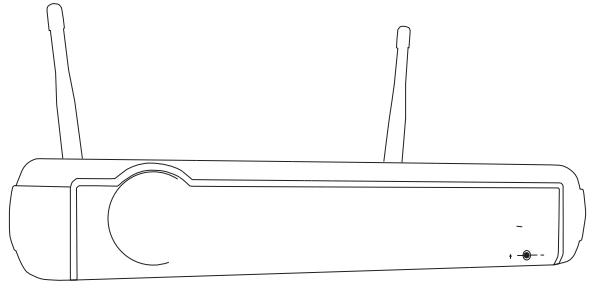
1



2



3



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.

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.

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.

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.

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

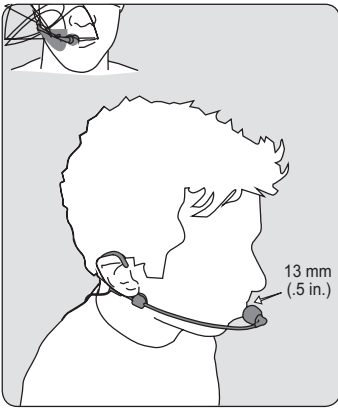
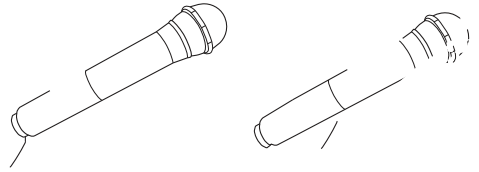
- Set to LO to avoid interfering with other receivers when in a building with multiple systems.
- Set to HI for transmitting over a greater distance when using a single system.

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

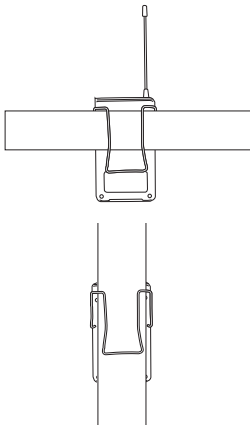
- Turn up the squelch dial (clockwise) to remove ambient noise from unwanted RF sources.
- Turn down the squelch dial (counterclockwise) if the microphone is not transmitting clearly to the receiver.

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

- 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.



- 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.



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

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

	<ul style="list-style-type: none"> <li>• Check the power supply of the microphone and receiver.</li> <li>• Ensure that the batteries are inserted correctly.</li> <li>• Set the transmitter and receiver to the same channel.</li> <li>• Check that the receiver is connected to the input on the audio mixer or amplifier.</li> <li>• Check that the transmitter is not too far away from the receiver.</li> <li>• Decrease (counterclockwise) the squelch.</li> <li>• Set the bodypack audio input switch to MIC.</li> <li>• Make sure that the receiver has a clear, line-of-sight path to the transmitter.</li> <li>• Keep the receiver away from metal objects.</li> </ul>
	<ul style="list-style-type: none"> <li>• Replace the transmitter batteries.</li> <li>• Check the receiver antenna location. Make sure there is a clear path between the receiver and the transmitter.</li> <li>• When using two or more systems simultaneously, chose different channels within the same group (channels 1-4 or channels A-D).</li> <li>• Turn off or relocate possible sources of interference such as cell phones, radios, or other electronic devices.</li> <li>• Increase squelch (clockwise) to restrict the receiver from picking up ambient noise.</li> <li>• Unplug any unused receivers</li> </ul>
	<ul style="list-style-type: none"> <li>• Adjust levels on the mixer board or sound system.</li> <li>• Make sure all cables are securely connected from the receiver to the sound system.</li> <li>• If using a bodypack transmitter, lower the gain settings.</li> </ul>

WACR

WASRM

WADRM

53A14226

95A14227

95A14220

95A14370

95A14372

95A14371

95A14223

95A14374

95A14422

See your local Shure distributor for assistance


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(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.

50 Hz to 15 kHz

Note: Dependent on microphone type

(Ref.  $\pm 48$  kHz deviation, 1 kHz tone)

<1%

90 dB A-weighted, typical

-10° C (14° F) to 50° C (122° F)

Note: Battery characteristics may limit this range.

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

MIC: -7 to -15 dBV

LINE: 9 to 1 dBV

8 dB

MIC setting: 16 k

LINE setting: 120 k

(dependent on applicable country regulations)

10 mW maximum

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

90 g (without batteries)

Molded ABS

2 "AA" size alkaline or rechargeable batteries

up to 10 hours (alkaline)

-20 dBV maximum

22 k

(dependent on applicable country regulations)

HI power mode: 10 mW maximum

LO power mode: 1 mW maximum

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

270 g (10.2 oz.) (without batteries)

Molded ABS

2 "AA" size alkaline or rechargeable batteries

up to 10 hours (alkaline)

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

245 g (11.5 oz.)

Molded ABS

(Ref.  $\pm 48$  kHz deviation with 1 kHz tone)

XLR connector into 100 k load: -19 dBV

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

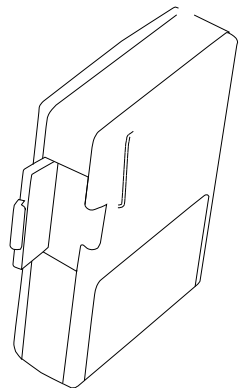
XLR connector: 600

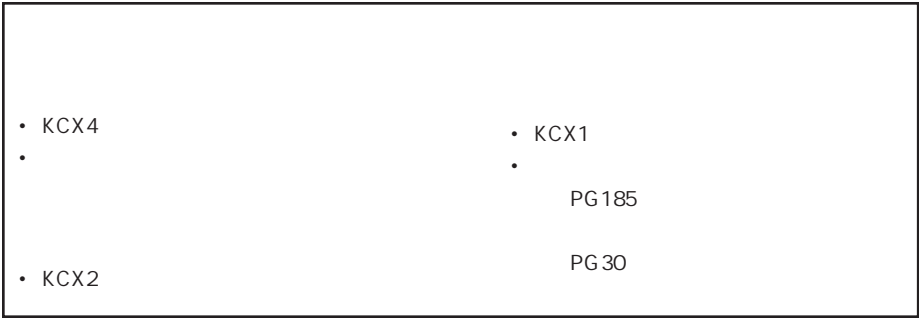
6.35 mm (1/4") connector: 600 Ref.  $\pm 48$  kHz deviation with dual-sine: 1 kHz tone + 17% 32.768 kHz pilot

-105 dBm for 12 dB SINAD, typical

>50 dBm, typical

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





2 AA

	XLR	MIC	LINE	LINE MIC	
	XLR	6.35	1/4		LINE
LINE MIC		LINE			

## Channel

channel

1-4

A-D

•				
•	AF		•	LO
			•	HI

•

•



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6

5 16

" "

	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul> <p style="text-align: center;">MIC</p>
	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul> <p style="text-align: center;">1-4      A-D</p>
	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> </ul>

(6)	WACR
	WASRM
	WADRM

	53A14226
	95A14227
PS21	95A14220

PG28	95A14370
PG28	95A14372
PG28	95A14371

PG58	95A14223
PG58	95A14374
PG58	95A14422

Shure

	(MHz)

## KCX2

( )  
 : 75 (250 )  
 : 18 (60 )

-20 dBV

22 k

( )  
 : 10 mW  
 : 1 mW

50 15

( ±48 1 )

<1%

254 X 51 (10 X 2 )

90 dB A-

270 (10.2 )( )

-10° C (14° F) 50° C (122° F)

ABS

2 6.35 1/4  
 XLR 3

2 "AA"

10 ( )

## KCX1

MIC: -7 -15 dBV  
 LINE: 9 1 dBV

8 dB

MIC : 16 k  
 LINE : 120 k

( )

10 mW

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

90 ( )

ABS

2 "AA"

10 ( )

## KCX4

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

245 (11.5 )

ABS

( ±48 1 )

XLR 100 k : -19 dBV

6.35 1/4 100 k : -5 dBV

XLR : 600

6.35 1/4 : 600 ±48  
 1 +17% 32.768

-105 dBm 12 dB SINAD,

>50 dBm,

12 18 V DC @ 130 mA,

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# **SHURE**<sup>®</sup>

LEGENDARY  
PERFORMANCE™

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