1. CITIȚI aceste instrucțiuni.
2. PĂSTRAȚI aceste instrucțiuni.
3. ATENȚIE la toate avertismentele.
4. URMAȚI toate instrucțiunile.
5. NU utilizați acest aparat în apropierea apei.
6. CURĂȚAȚI NUMAI cu o cârpă uscată.
7. NU blocați nicio deschidere de ventilație. Lăsați distanțe suficiente pentru o ventilație adecvată și instalați conform instrucțiunilor producătorului.
8. NU instalați în apropierea surselor de căldură, cum ar fi flăcări deschise, calorifere, registre de căldură, sobe sau alte aparate (inclusiv amplificatoare) care produc căldură. Nu așezați surse de flacără deschisă pe produs.
9. NU anulați scopul de siguranță al ștecherului polarizat sau al celui cu împământare. Un ștecher polarizat are două lame, unul mai lat decât celălalt. Un ștecher cu împământare are două lame și un al treilea pin de împământare. Lama mai lată sau al treilea pin sunt furnizate pentru siguranța dumneavoastră. Dacă ștecherul furnizat nu se potrivește în priză, consultați un electrician pentru înlocuirea prizei uzate.
10. PROTEJAȚI cablul de alimentare împotriva călcării pe el sau a ciupirii, în special la nivelul ștecherelor, prizelor și în punctul în care acesta iese din aparat.
11. FOLOSIȚI NUMAI atașamentele/accesoriile specificate de producător.
12. UTILIZAȚI numai cu un cărucior, stativ, trepied, suport sau masă specificate de producător sau vândute împreună cu aparatul. Când utilizați un cărucior, fiți precauți când mutați combinația cărucior/aparat pentru a evita accidentarea prin răsturnare.

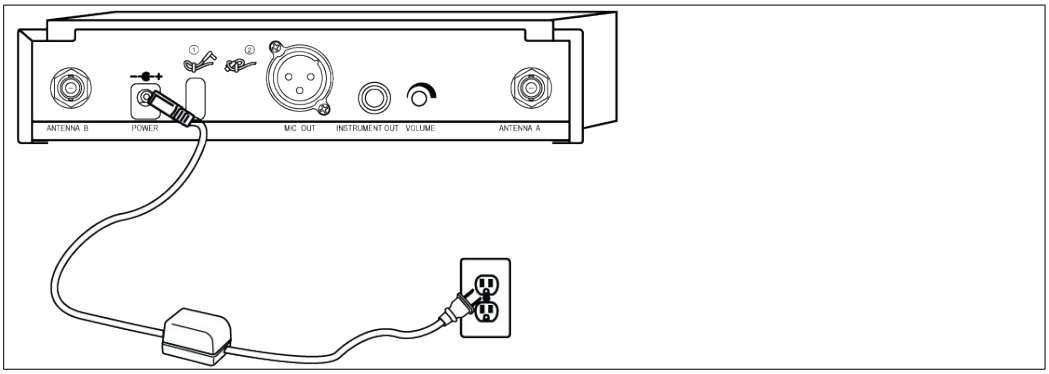
13. DECONECTAȚI acest aparat în timpul furtunilor cu fulgere sau când nu este utilizat pentru perioade lungi de timp.
14. Apelați la personal de service calificat pentru toate lucrările de service. Operațiunile de service sunt necesare atunci când aparatul a fost deteriorat în vreun fel, cum ar fi atunci când cablul de alimentare sau ștecherul este deteriorat, s-a vărsat lichid sau au căzut obiecte în aparat, aparatul a fost expus la ploaie sau umezeală, nu funcționează normal sau a fost scăpat.
15. NU expuneți aparatul la picături și stropire. NU așezați obiecte umplute cu lichide, cum ar fi vaze, pe aparat.
16. Ștecherul de la rețea sau un cuplaj al aparatului trebuie să rămână ușor de utilizat.
17. Zgomotul aerian al aparatului nu depășește 70 dB (A).
18. Aparatele cu construcție CLASA I trebuie conectate la o priză de rețea cu o conexiune de împământare de protecție.

19. Pentru a reduce riscul de incendiu sau electrocutare, nu expuneți acest aparat la ploaie sau umezeală.
20. Do not attempt to modify this product. Doing so could result in personal injury and/or product failure.
21. Operate this product within its specified operating temperature range.

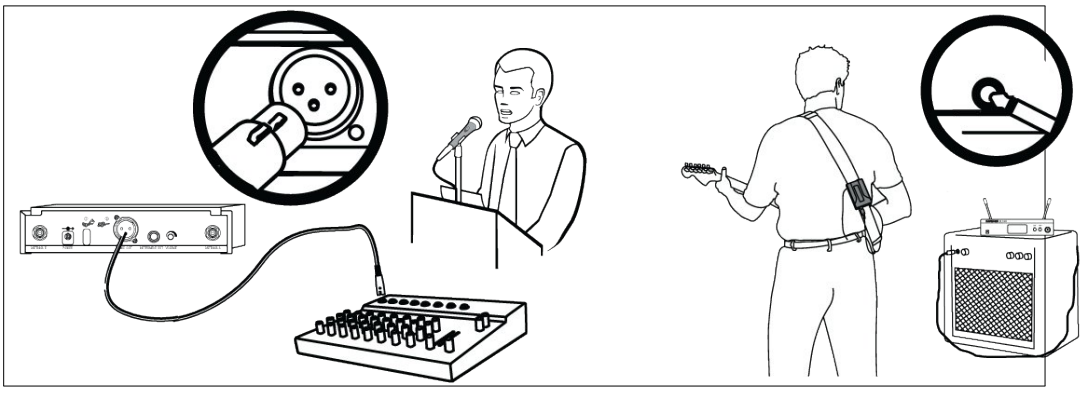
⚠	This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.
⚠	This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

QUICK START GUIDE

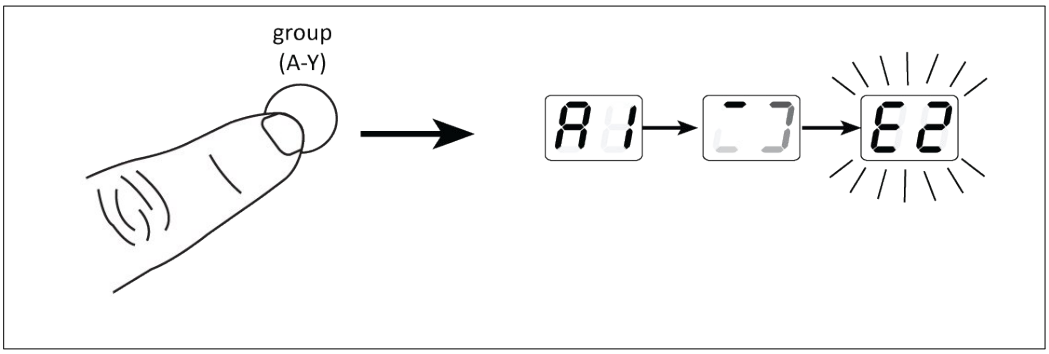
1. Connect receiver to power source.



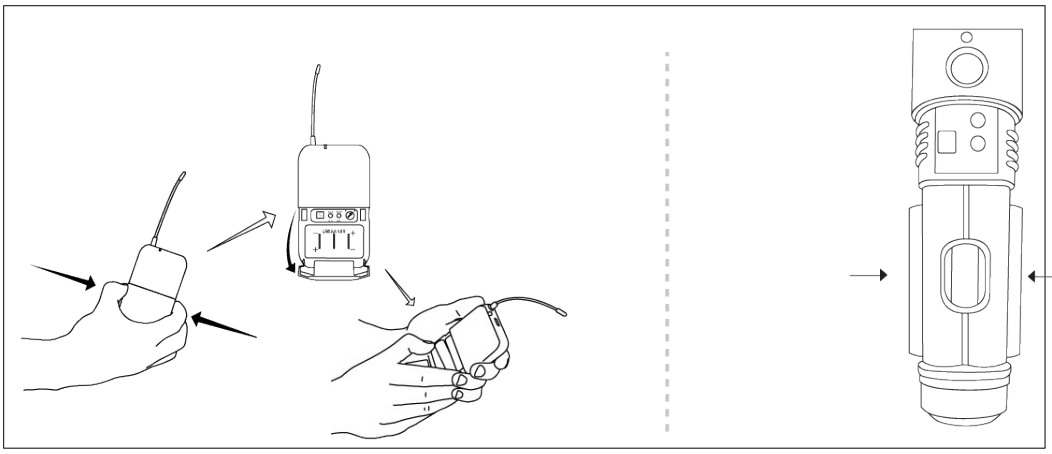
2. Connect receiver to mixer or amplifier. Press the power button to turn on the receiver.



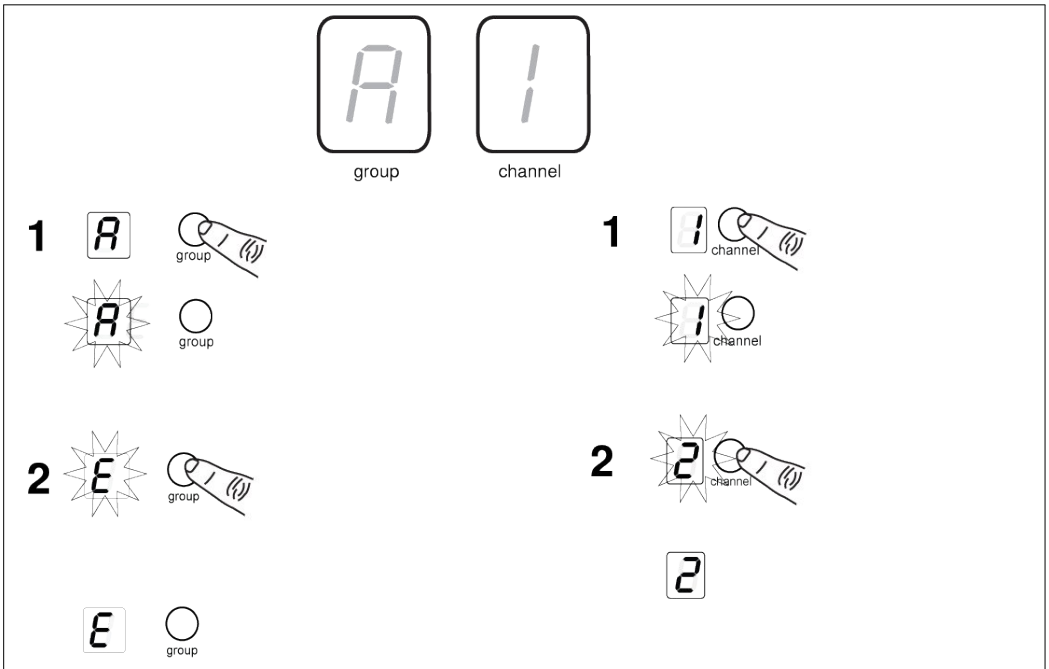
3. Press group button on receiver to perform a group scan.



4. Install batteries and turn on transmitter.



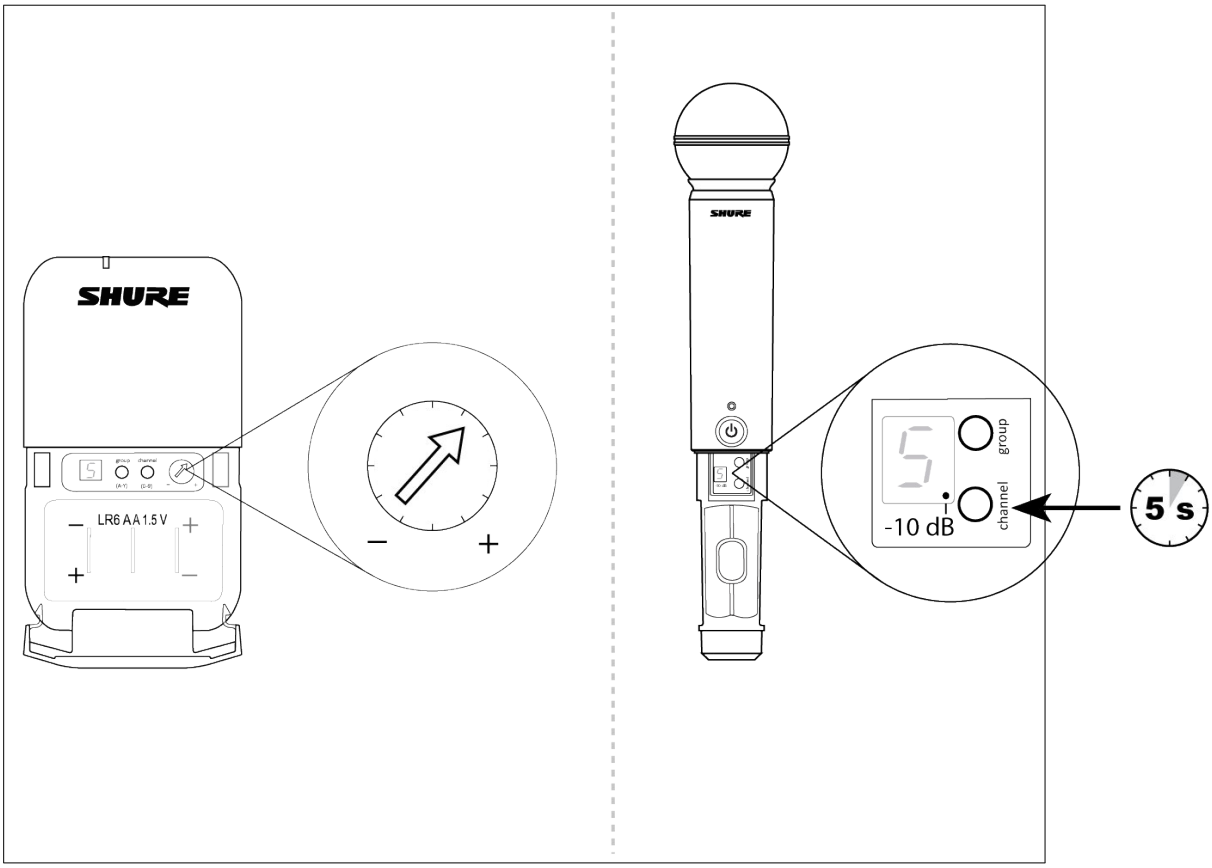
5. On the transmitter, set the group and channel to match the receiver. The RF bars and battery LED on the receiver should illuminate.



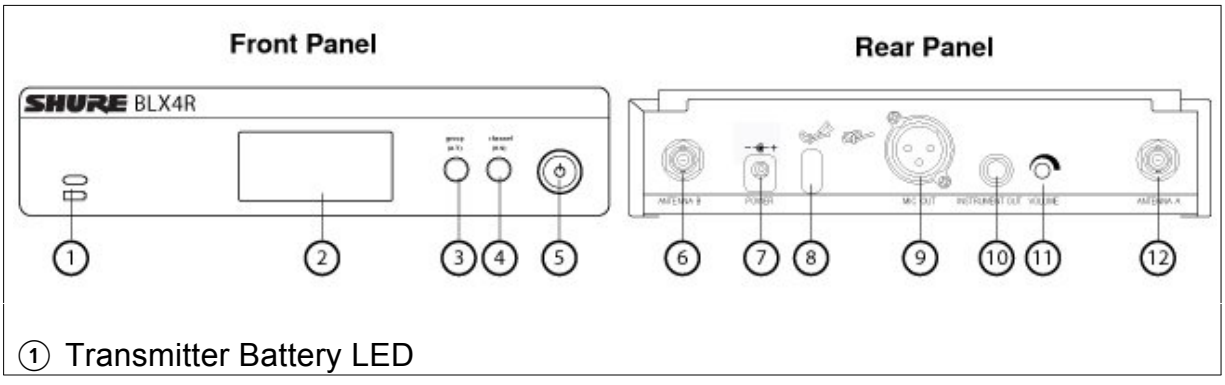
If setting up additional systems, leave the first transmitter and receiver on. For each additional receiver, manually set the group to match the first receiver. Note: The receiver will automatically perform a channel

scan to find an available frequency after the group has been selected. Set the transmitter frequency to match the receiver.

6. If sound is too faint or distorted, adjust the gain accordingly.



BLX4R RECEIVER



① Transmitter Battery LED

- Green = Runtime greater than 1 hour
- Red = Runtime less than 1 hour

② LCD Display

Displays receiver and transmitter settings.

③ group Button

- Scan: push and release group button to scan for an open group and channel
- Manual: push and hold group button to select a group.

④ channel Button

- Scan: push and release channel button to scan for an open channel
- Manual: push and hold channel button to select a channel.

⑤ Power Button

Powers the receiver on/off.

⑥ Antenna Jack B

BNC connector for antenna B.

⑦ DC Power Jack

For DC external power supply (12 to 15 V DC).

⑧ Strain-relief loop for power cord

Secures power cord to receiver.

⑨ Mic Out XLR audio output jack

Supplies microphone-level audio output.

⑩ INST Out audio output jack

Supplies instrument-level audio signal.

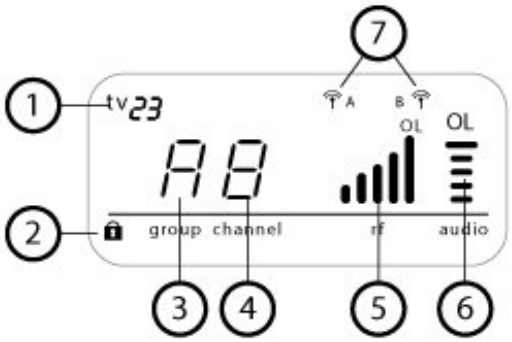
⑪ Volume Control

Use a screwdriver to adjust the output level.

⑫ Antenna Jack A

BNC connector for antenna A.

RECEIVER LCD SCREEN



① TV Channel

TV channel for selected frequency.

② Receiver Lock

Indicates control and power lock enabled.

③ Group

Displays selected group.

④ Channel

Displays selected channel.

⑤ RF Signal Strength

Number of bars corresponds to RF signal strength. OL indicates signal overload.

⑥ Audio Meter

Number of bars indicates audio signal level. OL indicates signal clipping.

⑦ Active Antenna Indicator

Indicates active antenna for the diversity signal.

TRANSMITTERS

BLX1

① LED Indicator

Displays power and battery status (see table).

② power Switch

Toggles power on or off.

③ 4-Pin Microphone Input Jack (TA4 connector)

④ Antenna

⑤ group Button

Changes group setting.

⑥ LED Display

Displays group and channel setting.

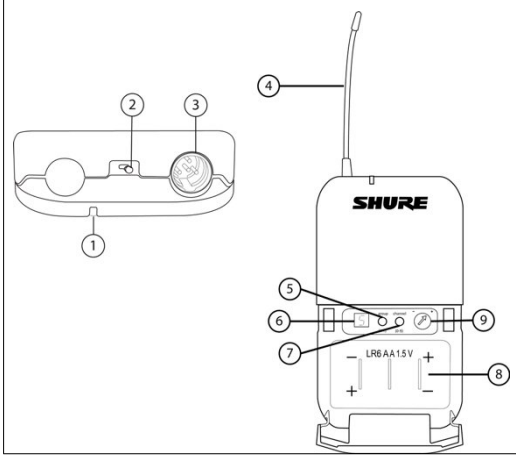
⑦ channel Button

Changes channel setting.

⑧ Battery Compartment

⑨ Audio Gain Adjustment

Rotate to increase or decrease transmitter gain.



BLX2

① LED Indicator

Displays power and battery status (see table).

② power Button

Push to turn power on or off.

③ group Button

Changes group setting.

④ channel Button

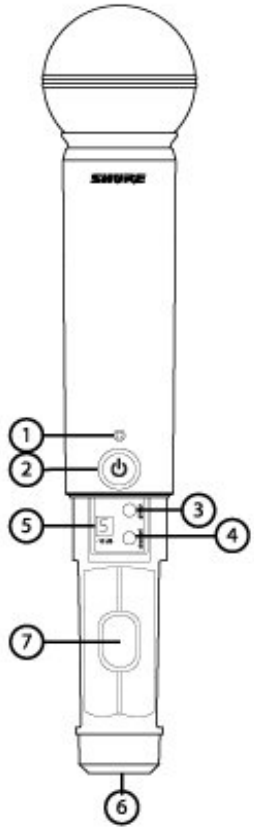
Changes channel and gain setting.

⑤ LED Display

Displays group and channel setting.

⑥ Identification Cap

⑦ Battery Compartment

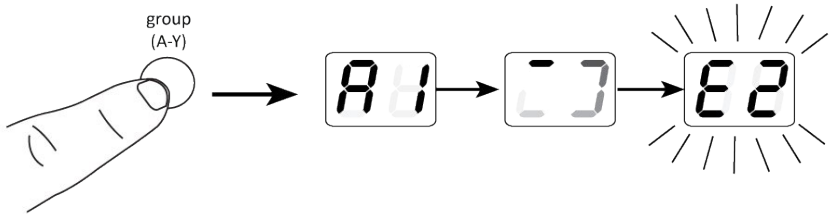


TRANSMITTER LED INDICATORS

LED INDICATOR	STATUS
Green	Ready
Rapidly Flashing Red	Controls locked
Solid Red	Battery power low (less than 1 hour remaining*)
Flashing Red and shuts off	Batteries dead (change batteries to power on transmitter)

*For alkaline batteries only. For rechargeable batteries, solid red means the batteries are dead.

SINGLE SYSTEM SET UP



Before you begin, turn off all transmitters and turn on any equipment (other microphones or personal monitoring systems) that could cause interference during the performance.

1. Press and release the group button on the receiver.

   The receiver scans for the clearest group and channel.

   Note: If you want to stop the scan, push the group button again.

2. Turn on transmitter and change the group and channel to match the receiver (See Setting Transmitter Group and Channel).

   Once the system is set up, perform an audio check and adjust the gain if necessary.

SETTING TRANSMITTER GROUP AND CHANNEL

Transmitter group and channel must be manually set to match the receiver.

GROUP (LETTER)

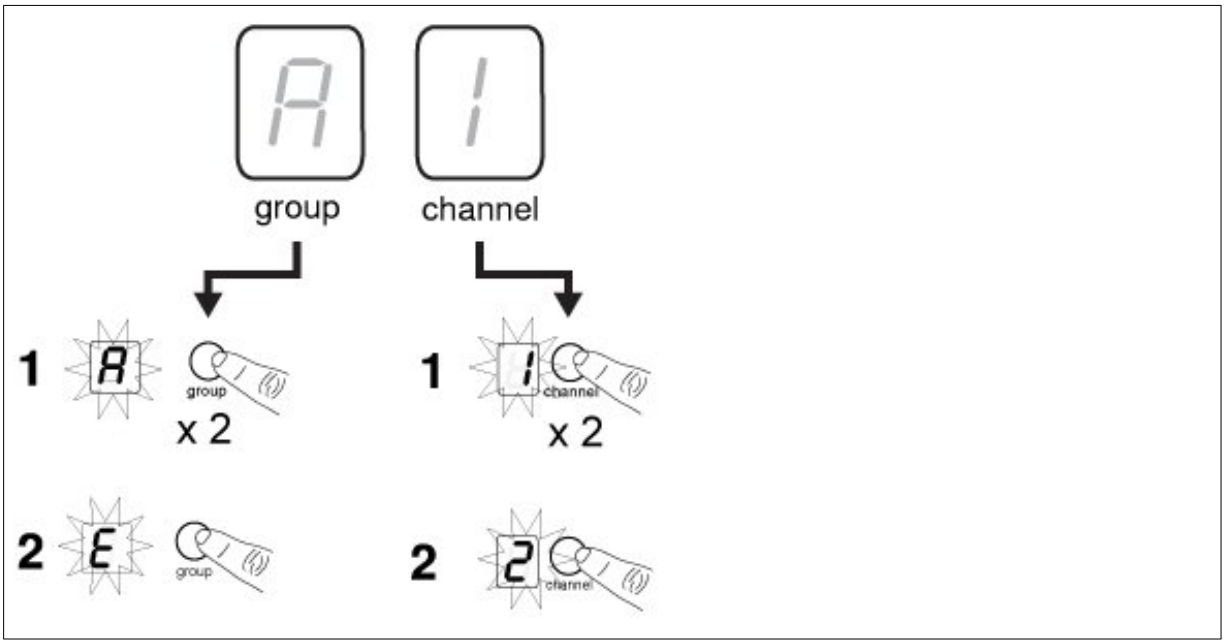
1. Press and release the group button on the transmitter to activate the display. Press the group button again and the display flashes.
2. While the display is flashing, press the group button again to advance to the desired group setting.

CHANNEL (NUMBER)

If channel needs to be changed, follow the same procedure using the channel button instead of the group button.

Note:

- When the group and channel correctly match the receiver, the RF bars and battery LED on the receiver illuminate.
- After manual setup, the transmitter alternately displays the group and channel setting for about two seconds.



MULTIPLE SYSTEM SET UP

Up to 12 systems can operate simultaneously (band and RF environment dependent).

Important: Set up each system one-at-a-time. Once a receiver and transmitter are tuned to the same group and channel, leave the transmitter powered on. Otherwise, scans from the other receivers will not detect that channel as occupied.

Turn **on** any other equipment that could cause interference during the performance so it will be detected during the group and channel scans in the following steps.

Before you begin system set up, turn all receivers **ON** and all transmitters **OFF**.

For the first receiver:

1. Perform a group scan to find the group with the most clear channels.
2. Turn on the first transmitter and change the group and channel to match the receiver.
3. Leave the transmitter on and continue with the additional systems.

Note: If the selected group does not contain enough open channels, manually select group "d" when setting up larger systems.

For each additional receiver:

1. Manually change the receiver to match the group setting of the first receiver. Recall that each time the group setting is changed, a channel scan is automatically done.
2. Turn on the transmitter and change the group and channel to match the receiver.
3. Leave the transmitter on and continue to the next system.
4. Once all receivers are set up, perform an audio check on all microphones.

MANUALLY SETTING RECEIVER GROUP AND CHANNEL

The receiver group may need to be changed as part of a multiple system setup.

GROUP (LETTER)

1. Hold the group button on the receiver until the display begins to flash.
2. While the display is flashing, press the group button again to advance to the next group.

Note: Only the group setting will be displayed during the manual setup.

3. Once the desired group is reached, release the group button. The receiver automatically performs a channel scan.

CHANNEL (NUMBER)

Always use a channel selected by the channel scan. However, if necessary, the channel can be set manually. Follow the same steps above using the channel button instead of the group button.

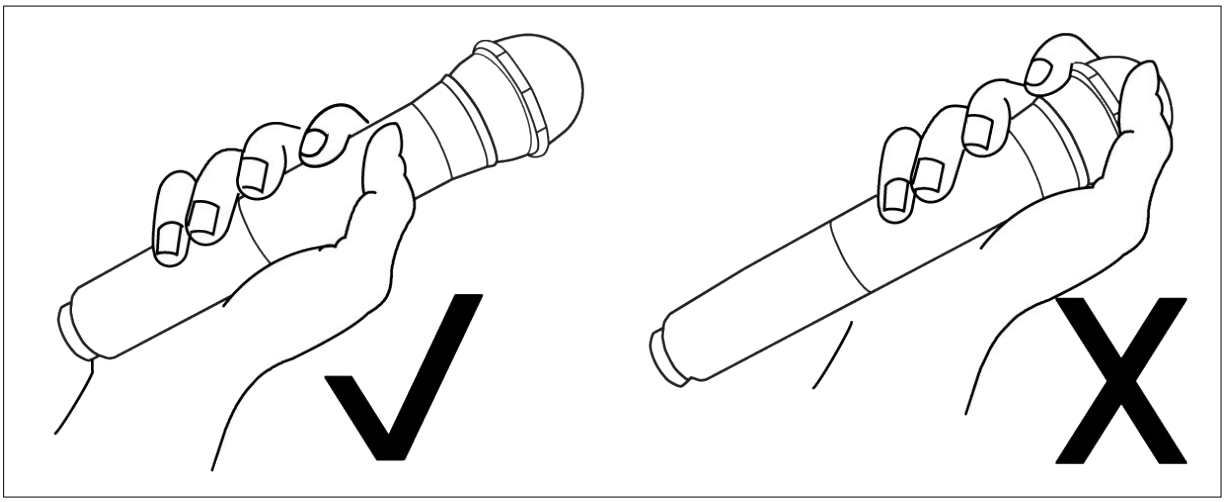
TIPS TO IMPROVE WIRELESS SYSTEM PERFORMANCE

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

- Choose a different receiver channel
- Reposition the receiver 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, Wi-Fi devices, and digital signal processors
- Charge or replace the transmitter battery
- Keep transmitters more than two meters (6 feet) apart
- Keep the transmitter and receiver more than 5 meters (16 feet) apart
- During sound check, mark trouble spots and ask presenters or performers to avoid those areas

GETTING GOOD SOUND

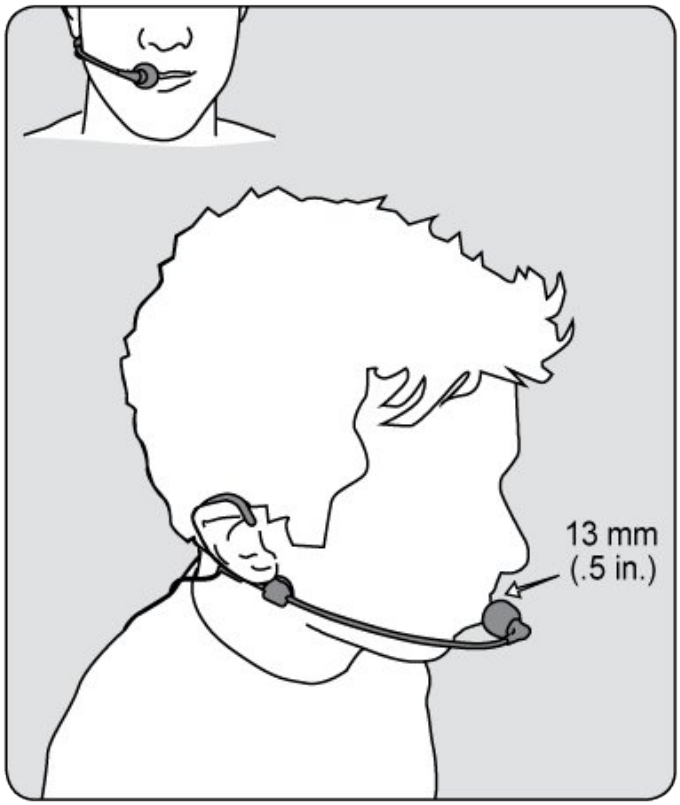
CORRECT MICROPHONE PLACEMENT



- 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.



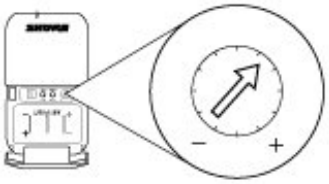
ADJUSTING GAIN

Monitor the audio meter on the receiver display when setting the transmitter gain. The OL indicator should only illuminate infrequently when you speak loudly or play your instrument loudly.

BLX1

Rotate the audio gain adjustment to increase (+) or decrease (−) the gain until desired level is reached.

For instruments, turn gain to minimum setting. For lavaliers, increase the gain as desired.



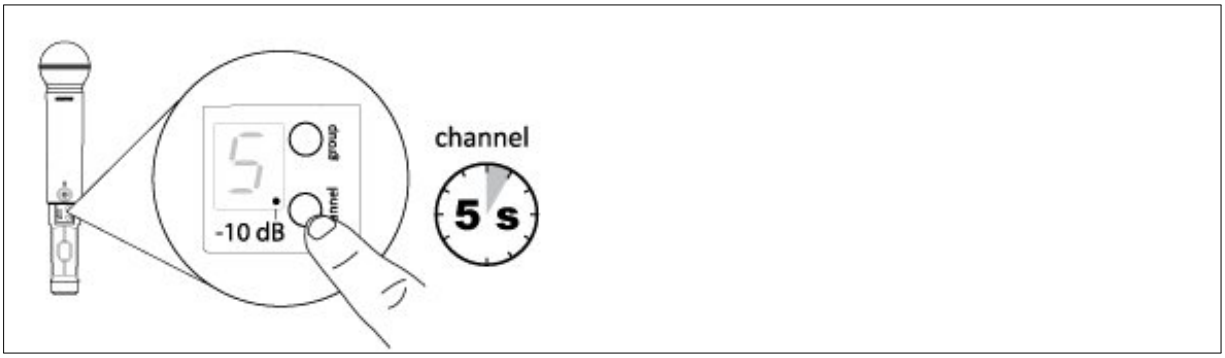
BLX2

The BLX2 features two gain level settings:

- **Default**
- **-10 dB**

Use the default setting for most situations. If the receiver audio OL indicator displays often, set the microphone to -10 dB.

1. To change the gain to -10 dB, hold down the channel button until a small dot appears in the lower right hand corner of the transmitter display.
2. To change the gain back to default, hold the channel button until the dot disappears.



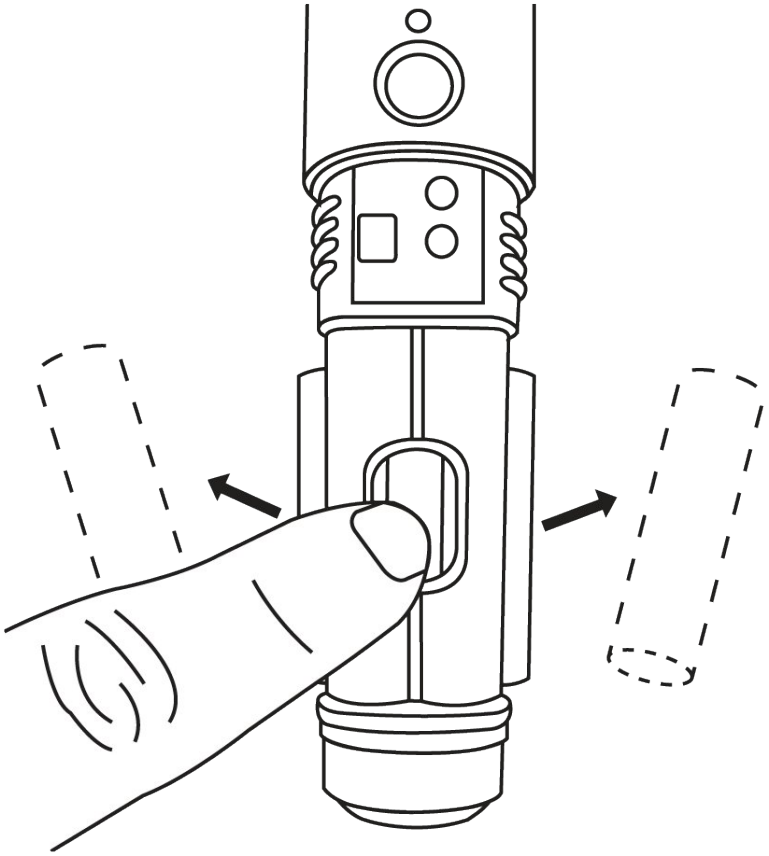
BATTERIES

Expected life for AA batteries is up to 14 hours (total battery life varies depending upon battery type and manufacturer).

When the LED indicator turns red, it signifies "low battery" with approximately 60 minutes of remaining battery life.

For alkaline batteries only. For rechargeable batteries, solid red means the batteries are dead.

To remove batteries from the handheld transmitter, push them out through the opening in the microphone battery compartment.



WARNING: Danger of explosion if incorrect battery replaced. Operate only with AA batteries.

WARNING: Battery packs shall not be exposed to excessive heat such as sunshine, fire, or the like.

LOCKING AND UNLOCKING CONTROLS

Lock system controls to prevent accidental setting changes or power-off.

TRANSMITTER (LOCK/UNLOCK)

Turn the transmitter on. Hold the group button, then press the channel button for approximately 2 seconds. The LED indicator rapidly flashes red when locked.

RECEIVER (LOCK/UNLOCK)

Turn the receiver on. Simultaneously hold the group and channel button until the flashing lock icon appears in the lower left-hand corner of the display, indicating the controls are locked. Repeat to unlock the controls.

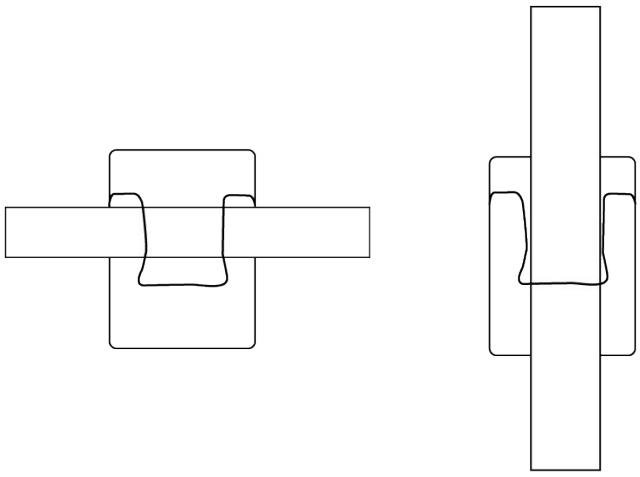
POWER OFF

Press and hold the power button to power off the BLX2 or BLX4R. To power off the BLX1, slide the power switch to OFF.

WEARING THE BODYPACK TRANSMITTER

Clip the transmitter to a belt or slide a guitar strap through the transmitter clip as shown.

For best results, the belt should be pressed against the base of the clip.



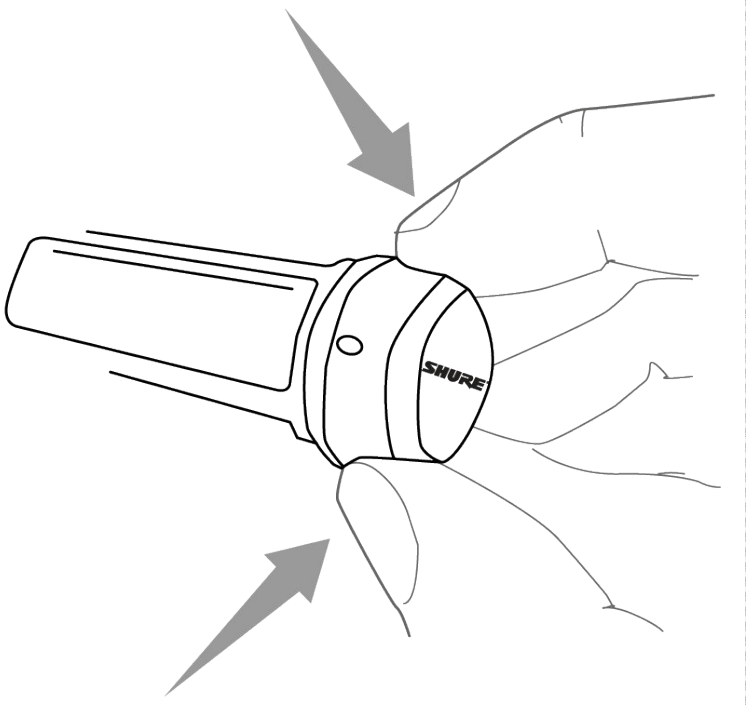
REMOVING AND INSTALLING IDENTIFICATION CAPS

The BLX2 is equipped with a black identification cap from the factory (dual vocal systems ship with additional gray cap).

To remove: Remove battery cover. Squeeze sides and pull off cap.

To install: Align the cap and click into place. Replace battery cover.

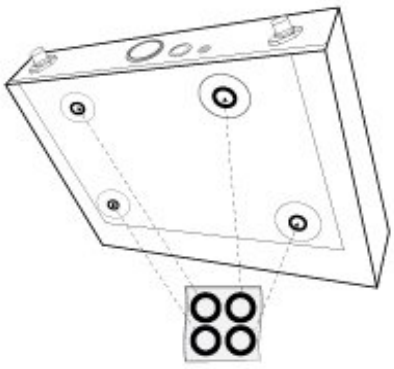
An Identification Cap Kit containing assorted colored caps is available as an optional accessory.

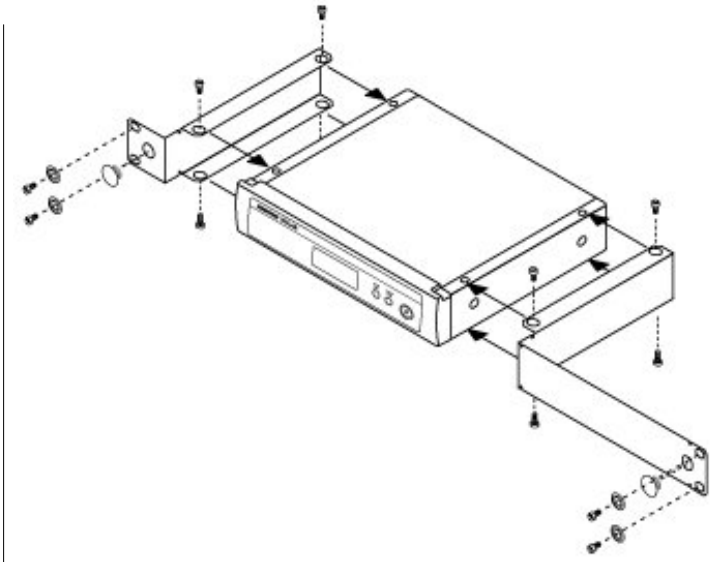


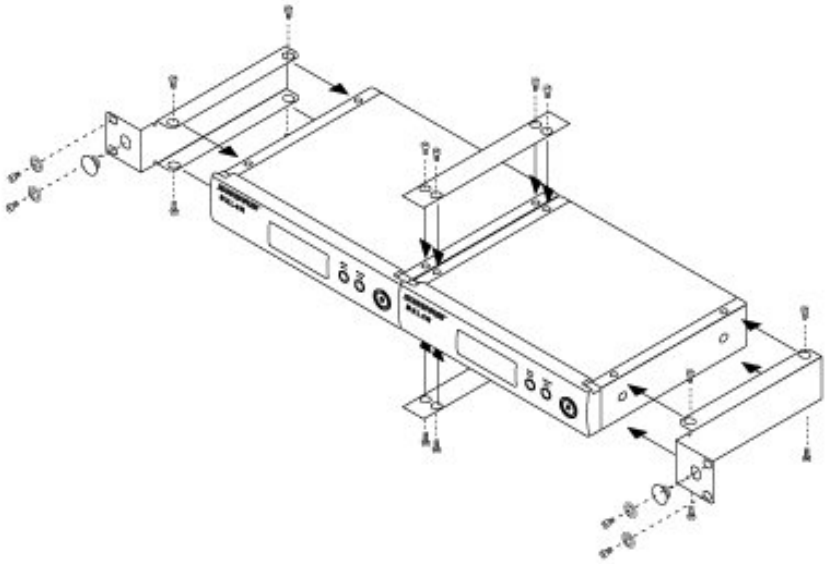
RACK-MOUNTING A RECEIVER

Use the supplied mounting hardware to install the receiver in a standard 19" audio equipment rack.

Antenna Connection Diagram







TROUBLESHOOTING

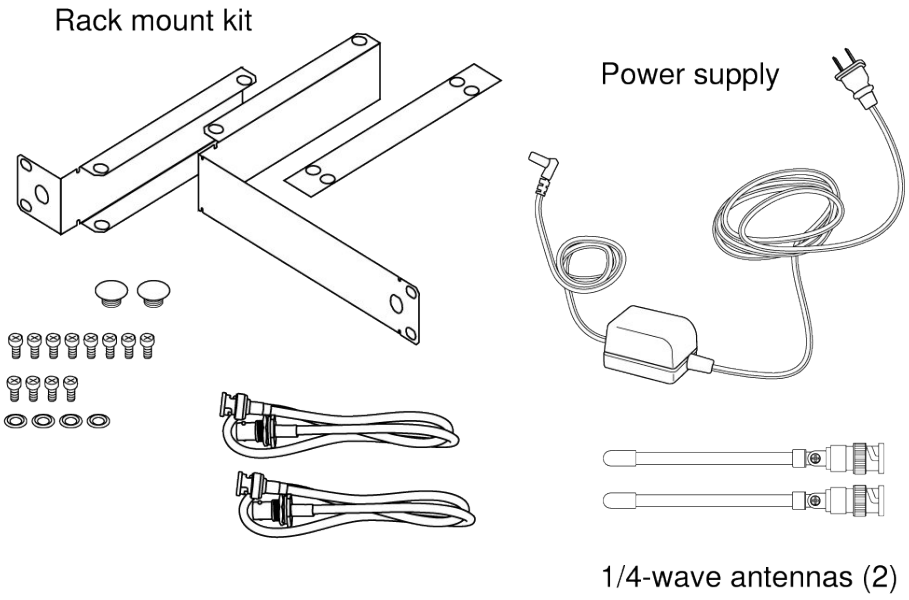
ISSUE	INDICATOR STATUS	SOLUTION
No sound or faint sound	Receiver RF bars and battery LED illuminated	• Verify all sound system connections or adjust gain as needed (see Adjusting Gain) • Verify that the

ISSUE	INDICATOR STATUS	SOLUTION
		receiver is connected to mixer/amplifier
	Receiver RF bars and battery LED off	• Turn on transmitter • Make sure the batteries are installed correctly • Perform transmitter setup (see Single System Setup) • Insert fresh batteries
	Receiver screen off	• Make sure AC adapter is securely plugged into electrical outlet. • Make sure receiver is powered on.
	Transmitter indicator LED flashing red	Replace transmitter batteries (see Changing Batteries).
Audio artifacts or dropouts	Receiver RF bars and battery LED flickering	• Change receiver and transmitter to a different group and/or channel. • Identify nearby sources of RF interference, and shutdown or remove source. • Replace transmitter batteries. • Ensure that receiver and transmitter are positioned within

ISSUE	INDICATOR STATUS	SOLUTION
		system parameters • System must be set up within recommended range and receiver kept away from metallic surfaces. • Transmitter must be used in line of sight from receiver for optimal sound
Distortion	Audio meter on receiver indicates overload (OL)	Reduce transmitter gain (see Adjusting Gain).
Sound level variations when switching to different sources	N/A	Adjust transmitter gain as necessary (see Adjusting Gain).
Receiver/transmitter won't turn off	LED indicator flashing rapidly, lock icon shown on receiver display	See Locking and Unlocking Controls.
Transmitter beyond receiver range	Receiver display dimmed to 50%	Move transmitter closer to receiver

ACCESSORIES

FURNISHED ACCESSORIES



OPTIONAL ACCESSORIES

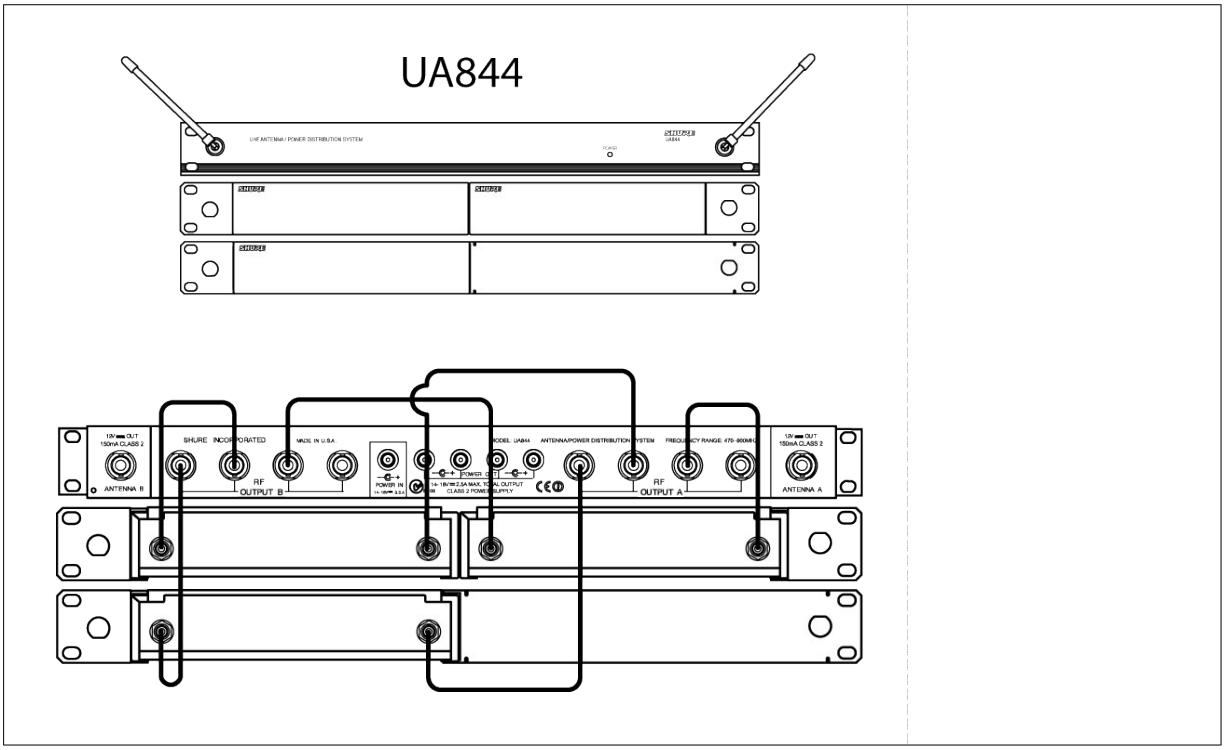
Antenna Combiners and Accessories

The following optional accessories are available from Shure. Please visit http://www.shure.com for more information.

- Antennas and receivers must be from the same band.
- The supplied 1/4 wave antennas can be used when mounted directly to the UA844. If antennas are remote mounted, 1/2 wave antennas must be used.
- Antennas and cables are for use with antenna distribution systems, and cannot be used with stand-alone receivers

Passive Antenna/Splitter Combiner Kit (recommended for 2 receivers)	UA221
25 ft. BNC-BNC Coaxial Cable	UA825
50 ft. BNC-BNC Coaxial Cable	UA850
100 ft. BNC-BNC Coaxial Cable	UA8100
1/2 Wave Antenna Remote Mount Kit	UA505
UHF Antenna Power Distribution Amplifier (recommended for 3 or more receivers)	UA844

1/2 Wave Omnidirectional Receiver Antenna for improved wireless signal reception	UA8
Single Rack Mount Kit	RPW503
Dual Rack Mount Kit	RPW504



SPECIFICATIONS

SYSTEM

Working Range

91 m (300 ft) Line of Sight

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

Audio Frequency Response

50 to 15,000 Hz

Note: Dependent on microphone type

Total Harmonic Distortion

Ref. ±33 kHz deviation with 1 kHz tone

0.5%, typical

Dynamic Range

100 dB, A-weighted, typical

Operating Temperature

-18°C (0°F) to 57°C (135°F)

Note: Battery characteristics may limit this range.

Polarity

Positive pressure on microphone diaphragm (or positive voltage applied to tip of WA302 phone plug) produces positive voltage on pin 2 (with respect to pin 3 of low-impedance output) and the tip of the high impedance 1/4-inch output.

BLX1

BLX1

Audio Input Level

max	-16 dBV maximum
min (0 dB)	+10 dBV maximum

Gain Adjustment Range

26 dB

Input Impedance

1 MΩ

RF Transmitter Output

10 mW, typical

varies by region

Dimensions

4.33 in. X 2.52 in. X 0.83 in. (110 mm X 64 mm X 21 mm) H x W x D

Weight

2.6 oz. (75 g), without batteries

Housing

Molded ABS

Power Requirements

2 LR6 AA batteries, 1.5 V, alkaline

Battery Life

up to 14 hours (alkaline)

BLX2

BLX2

Audio Input Level

0dB	-20 dBV maximum
-10dB	-10 dBV maximum

Gain Adjustment Range

10 dB

RF Transmitter Output

10 mW, typical

varies by region

Dimensions

8.82 in. X 2.09 in. (224 mm X 53 mm) L x Dia.

Weight

7.7 oz. (218 g) without batteries

Housing

Molded ABS

Power Requirements

2 LR6 AA batteries, 1.5 V, alkaline

Battery Life

up to 14 hours (alkaline)

BLX4R

BLX4R

Output Impedance

XLR connector	200 Ω
6.35 mm (1/4") connector	50 Ω

Audio Output Level

Ref. ±33 kHz deviation with 1 kHz tone

XLR connector	–20.5 dBV (into 100 kΩ load)

6.35 mm (1/4") connector	–13 dBV (into 100 kΩ load)

RF Sensitivity

-105 dBm for 12 dB SINAD, typical

Image Rejection

>50 dB, typical

Dimensions

1.65 in. X 7.80 in.X 6.42 in. (42 mm X 198 mm X 163 mm) H x W x D

Weight

without antennas

2.2 lbs (998 g)

Housing

Molded ABS, steel

Power Requirements

12–15 V DC @ 260 mA, supplied by external power supply (tip positive)

CERTIFICATIONS

BLX1, BLX2, BLX4R

Meets essential requirements of the following European Directives:

- WEEE Directive 2012/19/EU, as amended by 2008/34/EC
- RoHS Directive EU 2015/863

Note: Please follow your regional recycling scheme for batteries and electronic waste

This product meets the Essential Requirements of all relevant European directives and is eligible for CE marking.

CE Notice: Hereby, Shure Incorporated declares that this product with CE Marking has been determined to be in compliance with European Union requirements. The full text of the EU declaration of conformity is available at the following site: https://www.shure.com/en-EU/support/declarations-of-conformity.

Authorized European representative:

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BLX4R

Approved under the Declaration of Conformity (DoC) provision of FCC Part 15.

Industry Canada ICES-003 Compliance Label: CAN ICES-3 (B)/NMB-3(B)

BLXD1, BLXD2

Certified under FCC Part 74.

Certified by ISED in Canada under RSS-123 and RSS-102.

- DD4BLX1A, DD4BLX1B, DD4BLX1C, DD4BLX1D; DD4BLX2A, DD4BLX2B, DD4BLX2C, DD4BLX2D, DD4BLX1W, DD4BLX1S, DD4BLX2W, DD4BLX2S, DD4BLX1H11, DD4BLX2H11, DD4BLX1J11, DD4BLX2J11

Certificat de ISED în Canada în conformitate cu RSS-102 şi RSS-210.

- 616A-BLX1W, 616A-BLX1S, 616A-BLX2W, 616A-BLX2S

Acest dispozitiv conține emițător(i)/receptor(i) scutit(e) de licență care respectă RSS-urile scutite de licență ale Ministerului pentru Inovație, Știință și Dezvoltare Economică din Canada. Funcționarea este supusă următoarelor două condiții:

1. Este posibil ca acest dispozitiv să nu cauzeze interferenţe.
2. Acest dispozitiv trebuie să accepte orice interferenţă, inclusiv interferenţe care pot cauza funcţionarea nedorită a dispozitivului.

L'émetteur/récepteur exempt de licenţă conţinutul prezentului aparat este conform CNR d'Innovation, Sciences et Développement économique Canada se aplică pentru dispozitivele radio exempts de licenţă. L'exploitation est autorisée aux două condiţii următoarele:

1. L'appareil ne doit pas produce de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même şi le brouillage este susceptibil să compromită funcţionarea.

Avertisment Canada pentru serviciile wireless

Acest dispozitiv funcţionează pe principiul „fără protecţie, fără interferenţe”. În cazul în care utilizatorul doreşte să obţină protecţie faţă de alte servicii radio care operează în aceleaşi benzi TV, este necesară o licenţă radio. Pentru mai multe detalii, consultaţi documentul Circulara de proceduri pentru clienţi CPC-2-1-28, Licenţierea voluntară a aparatelor radio de putere redusă, scutite de licenţă, în benzile TV.

Ce dispositif fonctionne selon un regim de non-brouillage şi de non-protection. Dacă utilizatorul trebuie să caute pentru a obţine o protecţie sigură împotriva altor servicii radio funcţionale în aceleaşi benzi de televizor, o licenţă radio ar fi necesară. Pentru a cunoaşte plus, vă rugăm să consultaţi Circulara procedurilor privind clienţii CPC-2-1-28, Licenţa de licenţă pe o bază voluntară pentru aparatele radio de slabă putere scutite de licenţă şi exploatate în bandele de televiziune d'Innovation, Sciences et Développement économique Canada.

INFORMAŢII DE LICENŢARE

Licenţiere: În anumite zone, poate fi necesară o licenţă ministerială pentru operarea acestui echipament. Consultaţi autoritatea naţională pentru posibilele cerinţe. Modificările sau modificările care nu sunt aprobate în mod expres de Shure Incorporated ar putea anula autoritatea dumneavoastră de a opera echipamentul. Licenţierea echipamentelor de microfon wireless Shure este responsabilitatea utilizatorului, iar licenţierea depinde de clasificarea şi aplicaţia utilizatorului, precum şi de frecvenţa selectată. Shure îndeamnă insistent utilizatorul să contacteze autoritatea competentă în domeniul telecomunicaţiilor cu privire la licenţierea corespunzătoare şi înainte de a alege şi comanda frecvenţe.

INFORMAŢII PENTRU UTILIZATOR

Acest dispozitiv respectă partea 15 a Regulamentului FCC. Funcţionarea este supusă următoarelor două condiţii:

1. Este posibil ca acest dispozitiv să nu cauzeze interferenţe dăunătoare.

2. Acest dispozitiv trebuie să accepte orice interferență primită, inclusiv interferențe care pot cauza o funcționare nedorită.

Notă: Acest echipament a fost testat și s-a constatat că respectă limitele pentru un dispozitiv digital din clasa B, în conformitate cu partea 15 a Regulamentului FCC. Aceste limite sunt concepute pentru a oferi o protecție rezonabilă împotriva interferențelor dăunătoare într-o instalație rezidențială. Acest echipament generează și utilizează energie de radiofrecvență și, dacă nu este instalat și utilizat conform instrucțiunilor, poate cauza interferențe dăunătoare comunicațiilor radio. Cu toate acestea, nu există nicio garanție că nu vor apărea interferențe într-o anumită instalație. Dacă acest echipament provoacă interferențe dăunătoare recepției radio sau de televiziune, ceea ce poate fi determinat prin oprirea și pornirea echipamentului, utilizatorul este încurajat să încerce să corecteze interferența prin una sau mai multe dintre următoarele măsuri:

- Reorientați sau mutați antena receptoare.
- Măriți distanța dintre echipament și receptor.
- Conectați echipamentul la o priză de pe un circuit diferit de cel la care este conectat receptorul.
- Consultați distribuitorul sau un tehnician radio/TV cu experiență pentru asistență.

Notă: Testarea conformității EMC se bazează pe utilizarea tipurilor de cablu furnizate și recomandate. Utilizarea altor tipuri de cablu poate degrada performanța EMC.

Modificările sau modificările care nu sunt aprobate în mod expres de producător ar putea anula autoritatea utilizatorului de a opera echipamentul.