

Shure BLX4R--H8

Shure BLX4R Single Channel Rack Mount Wireless Receiver User Manual

Model: BLX4R--H8 | Brand: Shure

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of the Shure BLX4R Single Channel Rack Mount Wireless Receiver. The BLX4R is designed to provide professional-quality sound with simple setup and an intuitive interface, ideal for use with BLX Wireless Systems.

Key features include:

- One-touch QuickScan frequency selection to locate the best open frequency.
- Support for up to 12 compatible systems per frequency band (region-dependent).
- Two-color audio status indicator LED for normal or excessive audio levels.
- XLR and 1/4-inch output connectors.
- Adjustable output level.
- Removable antennas for quick antenna distribution.
- LCD Display with detailed RF and audio metering.
- Rack mount kit included for easy installation.



Figure 1: Front view of the Shure BLX4R Wireless Receiver, showing the display, group/channel buttons, and power button.

2. SETUP

2.1 Unpacking and Initial Inspection

Carefully unpack the receiver and all accessories. Verify that all components listed in the "What's in the box" section are present and undamaged. The package should include the BLX4R single-channel receiver, rack mount hardware, power supply, and this user guide.

2.2 Power Connection

Connect the supplied external power supply to the 12-15V DC @ 160mA input on the rear of the BLX4R receiver. Ensure the tip is positive. Plug the power supply into a suitable AC outlet.



Figure 2: Rear view of the Shure BLX4R Wireless Receiver, showing antenna connections, power input, XLR, and 1/4-inch outputs.

2.3 Antenna Installation

Attach the removable antennas to the ANTENNA A and ANTENNA B connectors on the rear of the receiver. For optimal performance, position the antennas vertically and ensure they are not obstructed.

2.4 Rack Mounting (Optional)

The included rack mount kit allows for installation into a standard equipment rack. Follow the instructions provided with the rack mount hardware for secure installation.

2.5 Frequency Band Selection

Important: Ensure the wireless frequency band of your BLX4R receiver matches that of your Shure BLX series transmitter (BLX1 or BLX2), which are sold separately. This receiver is the H8 Band (518-542 MHz) model.

Before operation, verify that the selected wireless frequency band is permissible and optimal for your geographical area. Refer to the Shure website for detailed frequency finder information.

BLX COMPARED TO SIMILAR MODELS			
	BLX	PGX-D	GLX-D+ Dual Band
MAX SYSTEMS PER BAND	12 Max Systems per band	5 Max Systems per band	5 Max Systems/11 Max Systems When Using GLX-D+ Rack-Mount Receiver & GLX-D+ Frequency Managers
OPERATING FREQUENCY	UHF	900 MHz	2.4/5.8 GHz
BATTERY TYPE	AA Batteries	AA Batteries	SB904 Rechargeable Lithium Ion (Included)
MAX BATTERY LIFE	14 Hours	10 Hours	12 Hours
RANGE	Range: 300 Ft	200 Ft	100 Ft
RECEIVER	Single + Dual Channel Receivers	Dual Channel Receivers	Dual Channel Receivers

Figure 3: Example chart illustrating wireless frequency band availability across various cities. Always consult the official Shure Frequency Finder for your specific location.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

Press the **Power** button on the front panel to turn the receiver on or off.

3.2 QuickScan Frequency Selection

The BLX4R features a one-touch QuickScan function to quickly locate the best open frequency in case of interference. To perform a QuickScan, ensure your transmitter is off, then press and hold the **Group** button on the receiver until the scan initiates. The receiver will automatically select and set the clearest available frequency.

3.3 Manual Group and Channel Selection

If manual adjustment is required, use the **Group (A-Y)** and **Channel (0-9)** buttons to navigate through available frequencies. The LCD display will show the selected group and channel, along with RF and audio metering.

3.4 Audio Output Level Adjustment

The BLX4R allows for adjustable output level. Use the appropriate controls (refer to the detailed diagram in the full user guide if available) to set the desired audio output level for your mixing console or amplifier.

3.5 Audio Status Indicator

Monitor the two-color audio status indicator LED on the front panel:

- Green:** Indicates normal audio levels.

- **Red:** Indicates excessive audio levels (overload/clipping). Adjust the input gain on your transmitter or the output level on the receiver to prevent clipping.

4. MAINTENANCE

The Shure BLX4R receiver is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the receiver. Avoid using harsh chemicals or abrasive cleaners.
- **Antennas:** Periodically check the antenna connections to ensure they are secure.
- **Storage:** When not in use for extended periods, store the receiver in a cool, dry place, away from direct sunlight and extreme temperatures.

5. TROUBLESHOOTING

If you encounter issues with your BLX4R receiver, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No audio output	Receiver not powered on. Transmitter not powered on or out of range. Frequency mismatch between transmitter and receiver. Audio cables disconnected or faulty. Receiver output level too low.	Ensure receiver is powered on. Power on transmitter and ensure it's within 300 ft (100m) range. Perform QuickScan or manually match frequencies. Check all audio cable connections. Increase receiver output level.
Interference or static	Interfering RF signals. Antennas obstructed or improperly positioned. Transmitter too far from receiver.	Perform QuickScan to find a clear frequency. Reposition antennas for clear line-of-sight. Move transmitter closer to receiver.
Audio clipping (Red LED)	Input gain on transmitter too high. Output level on receiver too high.	Reduce input gain on the transmitter. Reduce output level on the receiver.

For more detailed troubleshooting, please refer to the full user guide or contact Shure customer support.

6. SPECIFICATIONS

Specification	Value
Output Impedance (XLR)	200 ohm
Output Impedance (1/4")	50 ohm
Audio Output Level (XLR)	-27 dBV (into 100k ohm load)
Audio Output Level (1/4")	-13 dBV (into 100k ohm load)
RF Sensitivity	-105 dBm for 12 dB SINAD, typical

Specification	Value
Image Rejection	>50 dB, typical
Dimensions (H x W x D)	50mm x 198mm x 163mm (3.8 x 14.8 x 18.8 inches)
Weight	998g (2.2lb.) without antennas
Housing	Molded ABS, steel
Power Requirements	12-15V DC @ 160mA (tip positive)
Operating Range	Up to 300 feet (100m) line of sight
Max Systems per Band	Up to 12 (region-dependent)

Note: Specifications are subject to change without notice.

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The Shure BLX4R Single Channel Rack Mount Wireless Receiver comes with a 2-YEAR WARRANTY. For full details regarding warranty coverage, terms, and conditions, please refer to the official warranty document:

[Download Warranty \(PDF\)](#)

7.2 User Guide and Additional Resources

For a comprehensive user guide and additional technical documentation, please visit the official Shure website or refer to the provided user guide link:

[Download User Guide \(PDF\)](#)

For further assistance, technical support, or service inquiries, please contact Shure customer support through their official channels.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question