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> [Shure ULXD2 Digital Handheld Wireless Transmitter with Beta 58A Microphone User Manual](#)

Shure ULXD24/B58

Shure ULXD2 Digital Handheld Wireless Transmitter with Beta 58A Microphone User Manual

Model: ULXD24/B58

1. INTRODUCTION

Thank you for choosing the Shure ULXD2 Digital Handheld Wireless Transmitter with Beta 58A Microphone. This system provides professional-grade digital wireless audio transmission, combining robust performance with exceptional sound quality. The ULXD2 transmitter, paired with the Beta 58A microphone capsule, is designed for demanding live sound applications, offering secure AES 256-bit encryption and extended battery life. This manual provides essential information for the proper setup, operation, and maintenance of your device.

2. IMPORTANT SAFETY INFORMATION

- Read these instructions carefully before use.
- Keep these instructions for future reference.
- Heed all warnings on the product and in the instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Only use attachments/accessories specified by the manufacturer.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way.
- Dispose of batteries properly, observing all local regulations.

3. PACKAGE CONTENTS

The Shure ULXD24/B58 system typically includes the following components:

- ULXD2 Handheld Wireless Transmitter
- Beta 58A Microphone Capsule
- Shure Lithium-Ion Rechargeable Battery (SB900B)
- Microphone Clip
- Zippered Pouch
- User Guide (this document)

4. KEY FEATURES

- **Wide Frequency Response:** 30 Hz–20 kHz range with flat frequency response (actual response is microphone dependent).
- **Secure Transmission:** AES 256-bit encryption for applications requiring secure audio.
- **Optimized Dynamic Range:** Proprietary Shure Gain Ranging automatically optimizes the system's dynamic range for any input source, eliminating the need for manual transmitter gain adjustments.
- **Advanced Battery Management:** Shure Lithium-Ion rechargeable battery pack provides over 12 hours of battery life, precision metering in hours and minutes with a 5-segment battery fuel gauge, and zero memory effect.
- **Durable Construction:** Rugged metal construction ensures reliability in demanding environments.

5. SETUP

5.1. Battery Installation

The ULXD2 transmitter uses a Shure Lithium-Ion rechargeable battery (SB900B). Ensure the battery is fully charged before first use.

1. Unscrew the lower half of the transmitter handle to expose the battery compartment.
2. Insert the Shure Lithium-Ion battery into the compartment, ensuring correct polarity.
3. Screw the handle back on securely.



Figure 1: Shure ULXD2 Digital Handheld Wireless Transmitter with Beta 58A Microphone. This image shows the overall design of the handheld transmitter with the microphone capsule attached, illustrating its robust construction and ergonomic form factor. The lower part of the handle, where the battery is inserted, is visible.

5.2. Powering On and Off

- To power on, press and hold the power button until the display illuminates.
- To power off, press and hold the power button until the display turns off.

5.3. Linking to a Receiver

The ULXD2 transmitter must be linked to a compatible Shure ULX-D receiver to operate. Refer to your ULX-D receiver's manual for detailed linking instructions. Generally, this involves:

1. Performing a scan on the receiver to find an open frequency.
2. Syncing the transmitter to the receiver via infrared (IR) sync. Align the IR windows on both devices and initiate the sync process from the receiver.

6. OPERATING INSTRUCTIONS

6.1. Display and Navigation

The ULXD2 features an LCD display and navigation buttons (Enter, Exit, Up, Down) to access and adjust settings.

The display shows critical information such as frequency, group/channel, battery status, and gain settings.

6.2. Gain Adjustment

The ULXD2 transmitter utilizes Shure Gain Ranging, which automatically optimizes the system's dynamic range. This feature typically eliminates the need for manual gain adjustments on the transmitter itself. For fine-tuning audio levels, adjustments should primarily be made on the connected ULX-D receiver or mixing console.

6.3. Encryption

The ULXD2 supports AES 256-bit encryption for secure transmission. Encryption is enabled and managed through the ULX-D receiver. When encryption is active, the transmitter and receiver must be properly paired with the same encryption key. Consult your receiver's manual for details on enabling and managing encryption.

7. MAINTENANCE

7.1. Cleaning

- Use a soft, dry cloth to clean the exterior of the transmitter.
- Do not use abrasive cleaners or solvents, as they may damage the finish or internal components.
- For the microphone grille, gently remove any debris. The Beta 58A grille can often be unscrewed for cleaning the foam windscreen inside.

7.2. Battery Care

- Always use genuine Shure Lithium-Ion batteries for optimal performance and safety.
- Charge batteries using a compatible Shure charger (sold separately).
- Store batteries in a cool, dry place when not in use.
- If the transmitter will not be used for an extended period, remove the battery.

8. TROUBLESHOOTING

If you encounter issues, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
No audio output	Transmitter not powered on; Not linked to receiver; Receiver muted; Incorrect frequency.	Ensure transmitter is on; Perform IR sync with receiver; Check receiver mute status; Verify transmitter and receiver are on the same frequency.
Intermittent audio or dropouts	Interference; Transmitter too far from receiver; Obstructions; Low battery.	Perform a new frequency scan on receiver; Reduce distance between transmitter and receiver; Ensure line-of-sight; Replace or recharge battery.
Poor sound quality (distortion, noise)	Input level too high; RF interference; Damaged microphone capsule.	Adjust gain on receiver; Rescan for clear frequency; Inspect microphone capsule for damage.
Transmitter display not working	Low or dead battery; Transmitter fault.	Replace or recharge battery; If problem persists, contact Shure support.

9. SPECIFICATIONS

Feature	Detail
Model Number	ULXD24/B58
Item Weight	6.9 pounds
Package Dimensions	18.5 x 14.8 x 3.7 inches
ASIN	B009YMERSV
Date First Available	July 20, 2012
Connector Type	XLR Connector (on receiver, not transmitter)
Material Type	Metal
Power Source	Battery Powered (Shure Lithium-Ion)
Frequency Response	30 Hz–20 kHz (microphone dependent)
Encryption	AES 256-bit
Battery Life	Over 12 hours with Shure Lithium-Ion battery

10. WARRANTY AND SUPPORT

Shure products are designed for reliability and performance. For information regarding warranty coverage, service, or technical support, please visit the official Shure website or contact your local Shure distributor. Keep your proof of purchase for warranty claims.

Shure Official Website: www.shure.com