**Shure ULXD2/B58**

## Shure ULXD2/B58 Handheld Transmitter User Manual

Model: ULXD2/B58 | G50 Band (470 – 534 MHz)

## 1. INTRODUCTION AND OVERVIEW

The Shure ULXD2/B58 is a handheld wireless transmitter designed for use with ULX-D Digital Wireless Microphone Systems. It features an interchangeable BETA 58A vocal microphone capsule, providing high-quality audio capture. The ULX-D system is engineered for professional applications, offering secure, scalable, and durable wireless performance. It delivers 24-bit digital audio with a wide frequency response, ensuring accurate sound reproduction. Key features include AES-256 encryption for secure transmission, advanced rechargeability options, and compatibility with Shure's network control tools for comprehensive system management.

*Image: A black Shure ULXD2/B58 handheld wireless microphone transmitter with a silver BETA 58A vocal microphone capsule. The body features a small digital display showing battery life and frequency information, and an 'on' button.*

## 2. SETUP

### 2.1 System Requirements

- This ULXD2/B58 transmitter requires a Shure ULXD4 receiver to form a complete operational wireless system.
- Ensure that the frequency bands of the transmitter and receiver match for proper system operation. This model operates in the G50 Band (470 – 534 MHz).

### 2.2 Battery Installation

- The transmitter operates on 2 AA batteries, which are included.

- Open the battery compartment, insert the batteries according to the polarity indicators, and close the compartment securely.
- The ULX-D system also supports intelligent rechargeable solutions for extended use and remote monitoring of battery life.

## 2.3 Pairing with Receiver

To establish a wireless connection, the transmitter must be paired with a compatible ULXD4 receiver. Refer to the ULXD4 receiver's instruction manual for detailed pairing procedures. Generally, this involves synchronizing the transmitter and receiver via infrared (IR) sync to match their operating frequencies.

## 3. OPERATING INSTRUCTIONS

### 3.1 Powering On/Off

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

### 3.2 Microphone Usage

The BETA 58A vocal microphone capsule is designed for professional vocal applications. Hold the microphone firmly, pointing the grille towards the sound source. Maintain an appropriate distance from the sound source to prevent feedback and ensure optimal audio quality. The microphone's polar pattern is unidirectional, meaning it primarily picks up sound from the front, reducing unwanted background noise.

### 3.3 Advanced Features

- **AES 256-bit Encryption:** The ULXD2/B58 supports AES 256-bit encryption for secure transmission, generating a randomized key for each use. This feature is crucial for applications requiring confidentiality.
- **Remote Monitoring:** When used with compatible Shure software (e.g., Wireless Workbench 6, SystemOn), battery life and charge status can be monitored remotely.

## 4. FEATURES

- Requires a ULXD4 receiver to complete the system. Ensure frequency bands match for proper operation.
- Handheld wireless transmitter compatible with ULX-D digital wireless systems.
- Includes an interchangeable Shure BETA 58A microphone cartridge.
- Features a rugged yet lightweight aluminum body and integrated antenna.
- Delivers uncompromising audio quality and RF performance.
- Incorporates AES 256-bit encryption for secure transmission.
- Offers advanced rechargeability options for professional sound reinforcement applications.
- Provides a 30 Hz–20 kHz range with flat frequency response (actual response is microphone dependent).

### 4.1 Performance Overview

The ULX-D Digital Wireless system is designed to overcome common wireless challenges in professional environments. It offers high-density operation, allowing up to 47 systems to run simultaneously within a 6 MHz bandwidth. The 24-bit digital audio ensures a clear and accurate sound that is true to the source, capturing the full dynamics of the performance without the compression often associated with older wireless technologies.

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*Video: An interview with Chris Robertson, singer and guitarist for Black Stone Cherry, discussing his experience using Shure ULX-D wireless*

## 5. SPECIFICATIONS

| Specification | Detail |
|---|---|
| Brand | Shure |
| Model Name | ULXD2/B58 |
| Microphone Form Factor | Microphone System (Handheld Transmitter) |
| Item Weight | 1.41 pounds |
| Product Dimensions (L x W x H) | 12.75 x 4.75 x 3.5 inches |
| Power Source | Battery Powered |
| Number of Batteries | 2 AA batteries required (included) |
| Battery Type | Alkaline (supports intelligent rechargeable) |
| Material | Metal |
| Hardware Platform | Digital Receiver (Compatible with ULX-D systems) |
| Number of Channels | 1 |
| Frequency Response | 30 Hz–20 kHz (microphone dependent) |
| Signal Format | Digital |
| Size/Frequency Band | G50: 470-534 MHz |
| Recommended Uses | Singing |
| Connectivity Technology | Wireless (XLR output from receiver) |
| Special Feature | Rechargeable, Wireless, AES 256-bit Encryption |
| Included Components | Battery |
| Polar Pattern | Unidirectional (BETA 58A capsule) |
| UPC | 042406214209 |
| Date First Available | March 29, 2012 |

## 6. MAINTENANCE

### 6.1 Cleaning

- Regularly wipe the exterior of the transmitter with a soft, dry cloth.
- For the microphone grille, gently remove any debris. The BETA 58A capsule grille can often be unscrewed for more thorough cleaning of the foam windscreen inside.
- Avoid using harsh chemicals, solvents, or abrasive cleaners, as these can damage the finish or internal components.

## 6.2 Battery Care

- Remove batteries from the transmitter if it will not be used for an extended period to prevent leakage.
- If using rechargeable batteries, follow the manufacturer's guidelines for charging and storage to maximize battery life.

## 6.3 Storage

Store the transmitter in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity. Use a protective case to prevent physical damage during transport or storage.

## 7. TROUBLESHOOTING

If you encounter issues with your Shure ULXD2/B58 Handheld Transmitter, consider the following common troubleshooting steps:

- **No Power:** Ensure batteries are correctly installed and fully charged. Check the power button for proper function.
- **No Audio/Signal Loss:**
  - Verify that the transmitter is powered on and within range of the receiver.
  - Confirm that the transmitter and receiver are tuned to the same frequency band and channel. Re-sync if necessary.
  - Check for potential sources of RF interference in the operating environment.
  - Ensure the receiver's output is correctly connected to your audio system.

- **Poor Audio Quality:**
  - Check microphone placement and distance from the sound source.
  - Inspect the microphone capsule for any physical damage or debris.
  - Verify gain settings on both the transmitter and receiver to avoid clipping or low signal.
  - Ensure the correct microphone capsule is securely attached.

- **Interference:** The ULX-D system is designed for robust RF performance. If interference occurs, perform a scan on your receiver to find clear frequencies and re-sync the transmitter. Avoid operating near other wireless devices or strong RF sources.

For more detailed troubleshooting or persistent issues, consult the full ULX-D Digital Wireless System manual or contact Shure customer support.

## 8. WARRANTY AND SUPPORT

Shure products are manufactured to meet high-quality standards. Specific warranty terms and conditions are typically provided with your product purchase or can be found on the official Shure website. Please retain your proof of purchase for warranty claims.

For technical assistance, product registration, or to access additional resources, please visit the official Shure support page:
**Shure Official Support**
Contacting support may require your product model number (ULXD2/B58) and serial number.

**Related Documents - ULXD2/B58**

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|---|---|
| **QLX-D**<br>Wireless System | **Shure QLX-D Wireless System User Guide**<br>Comprehensive user guide for the Shure QLX-D Wireless System, detailing setup, features, operation, troubleshooting, and technical specifications for professional audio applications. |
| **AD2 TRANSMITTER** | **Shure AD2 Transmitter User Guide**<br>Comprehensive user guide for the Shure AD2 Digital Wireless Handheld Transmitter, covering features, specifications, safety instructions, operation, and maintenance. |
| **ADX2**<br>Handheld Transmitter | **Shure ADX2 Handheld Transmitter User Guide: Features, Operation, and Specifications**<br>Explore the Shure ADX2 Handheld Transmitter with this comprehensive user guide. Discover its advanced features, including superior audio quality, reliable RF performance, ShowLink remote control, encryption, and rechargeable battery options. Learn about setup, operation, and technical specifications for professional audio applications. |
| **ULX-D**<br>Wireless Microphone System | **Shure ULX-D Wireless Microphone System User Guide**<br>Explore the Shure ULX-D Digital Wireless Microphone System. This user guide covers setup, features like 24-bit audio and AES-256 encryption, RF performance, troubleshooting, and accessories for professional audio applications and sound reinforcement. |
| **MODEL BETA 58A**<br>SUPERCARDIOID DYNAMIC VOCAL MICROPHONE | **Shure BETA 58A Supercardioid Dynamic Vocal Microphone User Guide**<br>Comprehensive user guide for the Shure BETA 58A supercardioid dynamic vocal microphone, covering features, applications, placement, technical specifications, and general usage rules for optimal performance. |
| **ULX-D Dual and Quad**<br>Wireless Microphone System | **Shure ULX-D Dual and Quad Wireless Microphone System User Guide**<br>Comprehensive user guide for the Shure ULX-D Dual and Quad Wireless Microphone System, covering setup, hardware, networking, specifications, and troubleshooting for professional audio applications. |