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Shure ULXD2/N8SB=-G50

Shure ULXD2/N8SB Handheld Transmitter User Manual

Model: ULXD2/N8SB=-G50

Introduction

This manual provides comprehensive instructions for the setup, operation, and maintenance of the Shure ULXD2 Handheld Transmitter with Nexadyne 8/S Supercardioid Dynamic Microphone. The ULXD2 is designed for use with Shure ULX-D Digital Wireless Microphone Systems, offering professional-grade audio performance and reliable wireless transmission. Please read this manual thoroughly before operating the device to ensure proper functionality and safety.

Safety Information

Always observe the following basic safety precautions when using this product to reduce the risk of fire, electric shock, and injury to persons:

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with 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, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

Product Overview

The Shure ULXD2/N8SB is a high-performance handheld wireless transmitter designed for professional audio applications. It features a durable construction and an integrated Nexadyne 8/S Supercardioid dynamic microphone capsule, providing excellent vocal clarity and off-axis rejection.





Figure 1: Front view of the Shure ULXD2/N8SB Handheld Transmitter, showing the display screen and power button.

Key Components:

- **Microphone Capsule:** Nexadyne 8/S Supercardioid dynamic capsule.
- **LCD Display:** Shows frequency, group, channel, battery life, and other settings.
- **Power Button:** Turns the transmitter on/off.
- **Menu/Enter Button:** Navigates menus and confirms selections.
- **Gain Buttons:** Adjusts microphone input gain.
- **Battery Compartment:** Houses the rechargeable battery or AA batteries.



Figure 2: Two Shure ULXD2 handheld transmitters, highlighting their robust design and integrated displays.

Setup

1. Battery Installation

1. Unscrew the bottom cap of the transmitter to access the battery compartment.
2. Insert the Shure SB900B rechargeable battery or two AA batteries, observing the correct polarity (+/-).
3. Securely screw the bottom cap back onto the transmitter.

2. Microphone Capsule Attachment

The Nexadyne 8/S capsule comes pre-attached. If replacing or attaching a different Shure interchangeable capsule:

1. Unscrew the existing capsule by turning it counter-clockwise.
2. Align the new capsule with the transmitter body and screw it on clockwise until secure. Do not overtighten.

3. Powering On/Off

- To power on: Press and hold the power button until the LCD display illuminates.
- To power off: Press and hold the power button until the display turns off.

4. Pairing with Receiver

The ULXD2 transmitter must be paired with a compatible Shure ULX-D Digital Wireless Receiver (sold separately) for operation. Refer to your ULX-D receiver's manual for detailed pairing instructions. Typically, this involves:

1. Performing a Group and Channel scan on the receiver to find available frequencies.
2. Syncing the transmitter to the receiver via infrared (IR) sync. Ensure the IR windows on both devices are aligned.



Figure 3: An example of a complete Shure ULX-D wireless system setup, showing the handheld transmitter alongside a receiver and bodypack transmitter.

Operating

1. Frequency Selection

The operating frequency is typically set during the IR sync process with the receiver. To manually adjust or verify:

- Press the Menu button to navigate to the Frequency menu.
- Use the arrow buttons to select and adjust the group, channel, or specific frequency.

- Press Enter to confirm.

2. Gain Adjustment

Adjust the input gain to prevent clipping and ensure optimal audio quality.

- Press the Menu button to navigate to the Gain menu.
- Use the arrow buttons to increase or decrease the gain level. Monitor the audio level on your receiver.
- Press Enter to confirm.



Figure 4: A hand interacting with the controls of a Shure wireless device, demonstrating typical button usage for menu navigation.

3. Locking Controls

To prevent accidental changes to settings, you can lock the transmitter controls.

- Navigate to the Lock menu.
- Select "Lock All" or "Lock Power" as desired.
- To unlock, repeat the process and select "Unlock".

4. Battery Status Monitoring

The LCD display shows a battery icon indicating the remaining battery life. For precise monitoring with Shure rechargeable batteries, the display will show remaining runtime in hours and minutes.

Maintenance

1. Cleaning

- Wipe the transmitter body with a soft, dry cloth.
- For stubborn dirt, use a slightly damp cloth and then dry thoroughly.
- Do not use abrasive cleaners or solvents.
- Periodically clean the microphone grille with a soft brush to remove debris.

2. Battery Care

- If using rechargeable batteries, ensure they are charged using a compatible Shure charger.
- Remove AA batteries if the transmitter will not be used for an extended period to prevent leakage.

3. Storage

Store the transmitter in a cool, dry place away from direct sunlight and extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution
No audio output	Transmitter off; Batteries low/dead; Incorrect frequency; Transmitter not synced; Receiver issue.	Ensure transmitter is on. Replace/recharge batteries. Verify frequency matches receiver. Perform IR sync. Check receiver connections and settings.
Intermittent audio/dropouts	Interference; Out of range; Low battery; Obstructions.	Perform a new frequency scan. Move closer to receiver. Replace/recharge batteries. Ensure clear line-of-sight between transmitter and receiver.
Poor audio quality/distortion	Gain too high/low; Microphone placement; Capsule issue.	Adjust transmitter gain. Ensure proper microphone technique. Check if capsule is securely attached.
Transmitter controls locked	Controls accidentally locked.	Navigate to the Lock menu and select "Unlock".

Specifications

Feature	Detail
Model Name	ULXD2/N8SB=-G50
Microphone Form Factor	Handheld
Polar Pattern	Super Cardioid
Connectivity Technology	UHF Wireless
Frequency Band	G50 Band (470-534 MHz)
Power Source	Battery Powered (Shure SB900B rechargeable or AA batteries)
Item Weight	1.54 pounds (0.7 kg)
Product Dimensions (L x W x H)	12.85 x 4.9 x 4.15 inches (32.64 x 12.45 x 10.54 cm)
Included Components	ULXD2 Handheld Transmitter with Nexadyne 8/S Capsule
Color	Black
Manufacturer	Shure
UPC	042406839976

Warranty and Support

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