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## Shure QLXD14/84

# Shure QLX-D Wireless Microphone System User Manual

**Model: QLXD14/84**

Brand: Shure

## Introduction

The Shure QLX-D Digital Wireless System offers robust RF performance and high-quality 24-bit digital audio, designed for mid-size venues and demanding applications. This manual provides detailed instructions for setting up, operating, and maintaining your QLX-D system to ensure optimal performance and longevity.

## Setup

### 1. Connecting Antennas

Begin by securely connecting the included antennas to the A and B connectors located on the rear panel of the QLX-D receiver. Ensure they are firmly hand-tightened for reliable signal reception.




Figure 1: QLX-D receiver with antennas connected. The image shows the main receiver unit, a bodypack transmitter, and two upright antennas connected to the rear of the receiver.

## 2. Connecting Power Supply

Connect the power supply unit to the 'power' input on the receiver's rear panel. Then, plug the power supply into a suitable AC power outlet. The receiver will power on automatically or can be turned on using the front panel power button.

### 3. Connecting Receiver Audio Output

The QLX-D receiver offers both XLR and 1/4 inch outputs for audio connection. Choose the appropriate output based on your audio system's input requirements:

- **XLR Output:** For connecting to a microphone-level input on a mixer or audio interface, use the XLR output. Ensure the mic/line switch on the receiver is set to 'mic'.
- **1/4 inch Output:** For connecting to an instrument amplifier or line-level input, use the 1/4 inch output. The position of the mic/line switch does not affect the 1/4 inch output.

### 4. Powering On and Finding an Open Channel

Press and hold the power button on the receiver to turn it on. Once powered, you will need to find an open frequency channel to ensure clear audio transmission without interference. The QLX-D system features a scan function to automatically identify available frequencies.

▶ **Watch video online**
QLX-D How to use Network Scan

Video 1: This video demonstrates how to use the Network Scan feature on the Shure QLX-D system to find open frequencies. It covers connecting receivers via Ethernet and initiating a scan.

To perform a scan: Press the **Menu** button on the receiver until "Scan" appears on the display. Press **Enter** to initiate the scan. The receiver will then display a recommended group and channel. The network connection indicator on the front of the receiver will appear when it detects other Shure devices on the same network, which is crucial for network scanning.

▶ **Watch video online**
Shure How to Setup QLX-D Wireless Systems

Video 2: This video provides a comprehensive guide on setting up your Shure QLX-D Wireless System, including physical connections and initial power-on procedures.

### 5. Syncing the Transmitter

After finding an open channel on the receiver, you need to sync your transmitter (handheld or bodypack) to the receiver's frequency. First, install the batteries into your transmitter and turn it on.



Figure 2: The QLX-D receiver shown with a handheld microphone and a bodypack transmitter, illustrating the components of the wireless system.

To sync: Press the **Sync** button on the receiver. Then, align the transmitter's IR window (usually located near the battery compartment or base) with the receiver's IR window, typically about 6 inches away. Once the sync is complete, "Good" will display on the receiver, and the blue RF LED will illuminate, indicating successful connectivity.

## Operation

### 1. Checking Audio Levels

During your sound check, it is crucial to monitor the audio meter and LED on the receiver's display. The audio meter should display at least three bars, and the audio LED should be green for optimal signal strength. If necessary, adjust the gain using the arrow buttons on the front of the receiver to achieve appropriate levels without clipping.



Figure 3: A stack of Shure QLX-D receivers in a rack, showing their digital displays with frequency and audio level indicators. This setup is common for multi-channel wireless systems.

### 2. Network Scan Feature for Multiple Systems

The Network Scan feature is particularly useful when operating multiple QLX-D systems. It allows you to quickly identify clean and compatible frequencies across all networked receivers, replacing the traditional group scan mode found on other Shure wireless systems.

To enable this feature, first network your QLX-D receivers together using Cat5e or Cat6 Ethernet cables connected to a

network switch. It is recommended to use a DHCP-enabled router to automatically assign IP addresses. Once connected, the network connection indicator on the receiver's front panel will appear.
To perform a network scan: Select a group or custom group on the receiver you wish to use for initiating the scan. Press the **Menu** button until "Network Scan" appears and is flashing on the display. Press **Enter** to begin. The front panel LEDs of all networked receivers will blink as frequencies are assigned. If full deployment does not occur due to insufficient open frequencies, select another group and re-scan.

## Maintenance

### 1. Battery Replacement

The QLX-D system transmitters use 2 AA batteries (included). For extended performance and simplified workflow, a rechargeable lithium-ion battery option is available and recommended. Always replace batteries with new ones of the same type to ensure consistent performance. Refer to your transmitter's specific instructions for battery compartment access and proper insertion.

### 2. Cleaning

Regularly clean the exterior of the receiver and transmitters with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish and internal components. Keep the IR windows clear of dust and debris to ensure proper syncing.

## Troubleshooting

If you encounter issues with your Shure QLX-D system, consult the following common troubleshooting steps:

| Problem | Possible Cause | Solution |
|---|---|---|
| No Audio | Transmitter not synced; Receiver not powered; Audio cables disconnected; Incorrect gain settings. | Ensure transmitter is synced to receiver. Verify receiver is powered on. Check all audio cable connections. Adjust receiver audio gain. |
| Interference/Dropouts | Occupied frequency; Antennas obstructed or too far; Other wireless devices. | Perform a new frequency scan to find a clear channel. Ensure line-of-sight between transmitter and receiver antennas. Turn off other interfering wireless devices. |
| Transmitter Not Syncing | IR windows not aligned; Low transmitter battery; Receiver not in sync mode. | Ensure IR windows are properly aligned and close enough. Replace transmitter batteries. Verify receiver is in sync mode (Sync button pressed). |
| Network Scan Not Appearing | Receivers not networked; Network issues. | Ensure all QLX-D receivers are properly connected via Ethernet to a network switch. Check network cable integrity and switch functionality. |

## Technical Specifications

| Feature | Specification |
|---|---|
| Model | QLXD14/84 |
| Brand | Shure |
| Audio Sensitivity | 120 dB |

| Feature | Specification |
|---|---|
| Item Weight | 8.3 Pounds |
| Microphone Form Factor | Microphone System |
| Item Dimensions (L x W x H) | 19.3 x 17.2 x 3.6 inches |
| Power Source | Battery Powered |
| Number of Batteries | 2 AA batteries required (included) |
| Material | Metal |
| Signal-to-Noise Ratio | 120 dB |
| Number of Channels | 17 |
| Noise Level | 120 dB |
| UPC | 042406540063 |
| Connectivity Technology | Ethernet |
| Connector Type | XLR and 1/4 inch |
| Special Feature | Wireless, Rechargeable |
| Polar Pattern | Unidirectional |

## Warranty and Support

### Warranty Information

Shure products are manufactured to the highest quality standards. For specific warranty details and terms, please refer to the warranty card included with your product or visit the official Shure website.

### Customer Support

For further assistance, technical support, or service inquiries, please visit the official Shure support page:

Visit Shure Support


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