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Shure QLXD2/SM58=-V50

Shure QLXD2/SM58 Handheld Transmitter User Manual

Model: QLXD2/SM58=-V50 | Brand: Shure

Introduction

The Shure QLXD2/SM58 handheld transmitter with SM58 vocal mic capsule offers transparent 24-bit digital audio quality and efficient RF spectrum usage. It is designed for wireless vocals in various environments, including presentation spaces, music venues, and houses of worship. This transmitter is user-friendly, allowing quick synchronization with a wireless receiver via IR. It maintains a clear, uninterrupted signal over its 100-meter (330 ft.) range. Constructed with all-metal components, it ensures durability and is compatible with all SM, Beta, and KSM microphone cartridges, providing a wide selection of legendary Shure sound signatures.





The Shure QLXD2/SM58 handheld transmitter with SM58 vocal mic capsule, designed for digital wireless microphone systems.

Setup Guide

1. Connect the Antennas

Begin by securely connecting the antennas to the A and B connectors on the back of your Shure QLXD4 receiver. Ensure they are firmly attached for optimal signal reception.

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Video demonstrating how to connect the antennas to the Shure QLXD4 receiver.



A rack of Shure QLXD4 digital wireless receivers, demonstrating a typical setup with antennas connected and a laptop displaying frequency coordination software.

2. Connect the Power Supply

Connect the power supply to the receiver's power input and then plug it into a suitable power source. Once connected, press and hold the power button on the receiver to turn it on.

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Video guide for connecting the power supply to the Shure QLXD4 receiver.

3. Connect Receiver Audio Output

Connect the receiver's audio output to your mixing console or amplifier. If connecting to a microphone input, use the XLR output and set the mic/line switch to 'mic'. If connecting to an instrument amplifier, use the 1/4-inch output. The position of the mic/line switch does not affect the 1/4-inch output.

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Instructions on connecting the audio output from the Shure QLXD4 receiver.

4. Find an Open Channel

To ensure clear audio, it's crucial to find an open frequency channel. Press the 'menu' button on the receiver to access the scan function. Press 'enter' to initiate the scan. The scan icon will flash until the process is complete, after which the recommended group and channel will appear on the display. Install batteries into your transmitter and turn it on.

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Video demonstrating how to find an open channel using the network scan feature.

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Detailed steps for finding an open channel on your Shure QLX-D system.

5. Sync the Transmitter

To sync the transmitter with the receiver, press the 'sync' button on the receiver. Then, align the transmitter's IR window with the receiver's IR window, holding it 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.

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Visual guide for syncing the transmitter with the Shure QLX-D receiver.

6. Check Your Levels

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

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Instructions on how to check and adjust audio levels on the Shure QLX-D receiver.

7. Network Scan for Multiple Systems

For setups involving multiple QLX-D systems, the Network Scan feature helps identify clean, compatible frequencies. First, network your QLX-D receivers together using Cat5e or Cat6 Ethernet cables connected to a network switch. The Ethernet port LEDs will illuminate to confirm connectivity. It is recommended to use a DHCP-enabled router to automatically assign IP addresses. Once receivers are connected, a network scan can be used to coordinate frequencies. Choose a group or custom group on the receiver to initiate the scan. If you are unsure which group to use, consult the online Shure Wireless Frequency Finder tool. To begin the network scan, press the menu button until "Network Scan" appears and is flashing on the display, then press Enter. The front panel LEDs of all receivers will blink when frequencies have been assigned.

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Comprehensive guide on using the network scan feature for multiple Shure QLX-D systems.

Operation

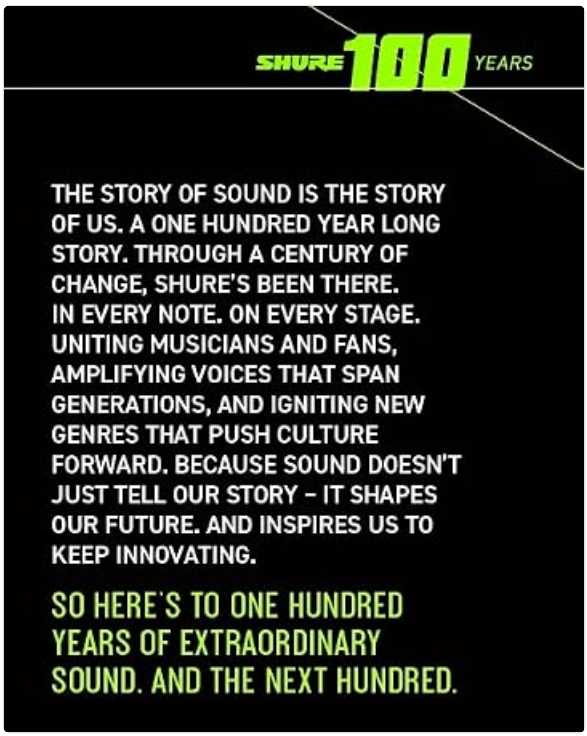
The Shure QLXD2/SM58 handheld transmitter is designed for reliable performance in various vocal applications. It operates with an impressive 328 feet (100 M) line-of-sight range, providing freedom of movement. The unit offers extended battery life, with up to 9 hours of continuous use with the included 2 AA Alkaline batteries, or up to 10 hours with an optional Shure SB900 lithium-ion rechargeable battery. Its interchangeable SM58 microphone cartridge ensures high-quality vocal reproduction, making it suitable for diverse professional audio needs.



The Shure QLXD2/SM58 handheld transmitter paired with a QLXD4 receiver, illustrating a typical operational setup.

Maintenance

To ensure the longevity and optimal performance of your Shure QLXD2/SM58 handheld transmitter, regular maintenance is recommended. Always use fresh batteries or fully charged rechargeable batteries for consistent operation. The unit's all-metal construction provides durability, but it should still be handled with care to prevent damage from drops or impacts. Keep the microphone capsule clean and free from debris. For cleaning the exterior, use a soft, dry cloth. Avoid using harsh chemicals or abrasive materials that could damage the finish or internal components.



A detailed view of the Shure QLXD2/SM58 handheld transmitter, highlighting its robust metal construction and user interface.

Troubleshooting

If you encounter issues with your Shure QLXD2/SM58 system, refer to the following common troubleshooting steps:

- **No Audio or Intermittent Signal:**
  - Ensure all cables (antennas, power, audio output) are securely connected.
  - Verify that the transmitter and receiver are powered on and synced.
  - Check the battery level of the transmitter and replace if low.
  - Perform a frequency scan to find a clear channel, especially in environments with high RF activity.
  - Ensure the transmitter and receiver match in frequency range (V50 Band: 174-216 MHz).
- **Interference or Noise:**
  - Re-scan for an open channel.
  - Ensure there are no other wireless devices operating on the same or adjacent frequencies.
  - Maintain line-of-sight between the transmitter and receiver antennas.
  - Keep the receiver away from large metal objects or other electronic devices that may cause interference.
- **Network Scan Not Appearing in Menu:**
  - The network scan option will not appear if QLX-D receivers are not properly networked together. Ensure all Ethernet connections are secure and active.
- **Full Frequency Deployment Not Occurring:**
  - If there are not enough open frequencies for your networked receivers, full deployment will not occur. In this case, select another group and re-scan.

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Troubleshooting tips related to network scanning and frequency deployment for Shure QLX-D systems.

Specifications

Feature	Detail
Brand	Shure
Model Name	QLXD2/SM58
Item Model Number	QLXD2/SM58=-V50
Item Weight	1.2 Pounds (0.54 kg)
Product Dimensions	12.65 x 4.63 x 3.25 inches (32.13 x 11.76 x 8.26 cm)
Microphone Form Factor	Microphone System
Power Source	Battery Powered
Number of Batteries	2 AA batteries required (included)
Battery Type	Alkaline (compatible with Shure SB900 lithium-ion rechargeable battery)
Material	Metal

Feature	Detail
Signal-to-Noise Ratio	60 dB
Number of Channels	20
Noise Level	120 dB
Connectivity Technology	Wireless
Connector Type	XLR
Polar Pattern	Unidirectional
Operating Range	328 feet (100 M) line of sight
Included Components	QLXD2/SM58, 2 AA batteries, battery contact cover, microphone clip, user guide

Warranty Information

For detailed warranty information regarding your Shure QLXD2/SM58 Handheld Transmitter, please refer to the official warranty document provided by Shure. A digital copy of the warranty is available for download:

Download Warranty (PDF)

Customer Support

Should you require further assistance, technical support, or have any questions about your Shure QLXD2/SM58 Handheld Transmitter, please visit the official Shure website or contact their customer support team. You can also find additional resources and product information on the Shure Brand Store:

Visit Shure Brand Store

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