

# SHURE®

LEGENDARY  
PERFORMANCE™

QLX-D™ Wireless Systems

# QLX-D™ DIGITAL WIRELESS



QLX-D™ Digital Wireless delivers defined, streamlined performance with transparent 24-bit digital audio. Combining professional features with simplified setup and operation, QLX-D offers outstanding wireless functionality for demanding live sound events and installations.

## Transparent 24-bit digital audio captures every performance detail

- Extended 20 Hz to 20 kHz frequency range\*
- Over 120 dB of dynamic range eliminates transmitter gain adjustment

## Incredibly Efficient Wireless

- Wide up to 72 MHz tuning bandwidth\*\*
- Up to 22 compatible systems per 8 MHz TV channel

## Powerful Networking Features

- Compatible with Shure Wireless Workbench® 6 control software
- Remote control from an iOS device via ShurePlus™ Channels mobile app

## Rugged, secure systems built to match demanding environments

- AES-256 encryption for secure wireless transmission
- Professional-grade all metal construction

## APPLICATIONS

Musicians

Presenters

Houses of Worship

Education

Hotels and Conference  
Centers

## PRODUCT HIGHLIGHTS

24-bit Digital Audio

100 meter Range

Ethernet Networking

Rechargeable Power  
Options

\*Microphone dependent \*\*Region dependent

# System Specifications

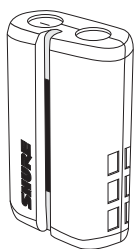
<b>RF Carrier Range</b>	174 - 216 MHz, 470 - 865 MHz, 1492 - 1525 MHz, 1785 - 1805 MHz, <i>varies by region</i>
<b>Working Range</b>	100 m <i>Note: Actual range depends on RF signal absorption, reflection and interference.</i>
<b>RF Tuning Step Size</b>	25 kHz, <i>varies by region</i>
<b>Image Rejection</b>	>70 dB, typical
<b>RF Sensitivity</b>	-97 dBm at 10 <sup>-5</sup> BER
<b>Latency</b>	<2.9 ms
<b>Audio Frequency Response</b>	QLXD1: 20 Hz – 20 kHz (±1 dB) QLXD2: <i>Note: Dependent on microphone type</i>
<b>Audio Dynamic Range</b> <i>System Gain @ +10</i>	>120 dB, A-weighted, typical
<b>Total Harmonic Distortion</b> <i>-12 dBFS input, System Gain @ +10</i>	< 0.1%
<b>System Audio Polarity</b>	Positive pressure on microphone diaphragm produces positive voltage on pin 2 (with respect to pin 3 of XLR output) and the tip of the 6.35 mm (1/4-inch) output.
<b>Operating Temperature Range</b>	-18 °C to 50 °C <i>Note: Battery characteristics may limit this range.</i>
<b>Storage Temperature Range</b>	-29 °C to 74 °C <i>Note: Battery characteristics may limit this range.</i>

## Frequency Range

Band	Range (MHz)	Transmitter Output (mW)
V51	174 – 216	1 or 10
G51	470 – 534	1 or 10
H51	534 – 598	1 or 10
K51	606 – 670	1 or 10
L52	632 – 694	1 or 10
P51	710 – 782	1 or 10
Q51	794 – 806	1 or 10
S50	823 – 832, 863 – 865	1 or 10
Z17	1492 – 1525	1 or 10
Z18	1785 – 1805	1 or 10

**NOTE:** This Radio equipment is intended for use in musical professional entertainment and similar applications. This Radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies and RF power levels for wireless microphone products.

## Rechargeable Power Management (sold separately)



**SB900A Rechargeable Battery** QLX-D transmitters are compatible with the SB900A lithium-ion rechargeable battery, which provides up to 10 hours of continuous use and precise tracking of remaining life and charge cycle details.

**SBC200 Dual Docking Recharging Station** This compact and portable unit charges batteries while in transmitters or out. Up to 4 SBC200's can be chained together to run off one power supply.

**SBC800 Eight Battery Recharging Station** This compact and portable unit charges up to 8 SB900A batteries to full capacity within 3 hours, with status LEDs to indicate power levels. SB900A batteries fit securely in the charger for easy, efficient storage and transport.

## Battery Runtime (at 10 mW)

Battery Type	Runtime
SB900A	up to 10 hours
Alkaline	up to 9 hours

## Furnished Accessories

### All Systems

PS23 Power supply
1/2 Wave Receiver Antenna (2)
2' BNC Cable (2)
BNC Bulkhead Adapter (2)
Rackmount Hardware kit
2 × AA batteries (bodypack systems)

### Handheld Systems

Microphone Clip (handheld systems)
Handheld Zipper Bag (bodypack systems)

### Bodypack Systems

Bodypack Antenna
Bodypack Zipper Bag (bodypack systems)

# QLXD1 Wireless Bodypack Transmitter

## Overview

Featuring transparent 24 bit digital audio quality and incredibly efficient RF spectrum usage, the QLXD1 bodypack transmitter is ideal for wireless vocals and instruments in presentation spaces, music venues, and houses of worship. Easy to use, the QLXD1 quickly syncs with a wireless receiver over IR at the push of a button and maintains clear, uninterrupted signal over its entire 100 m (330 ft.) range. All metal construction ensures durability, and a wide selection of compatible microphone choices offer legendary Shure sound signatures..

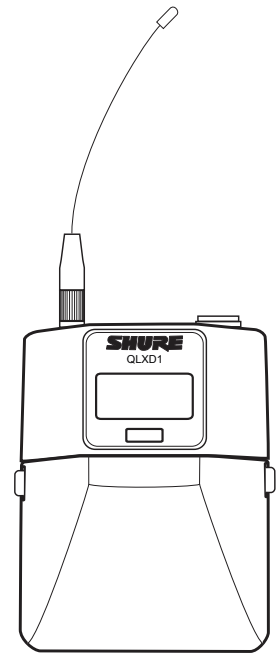
- 20 Hz to 20 kHz frequency range with flat response (actual response is microphone dependent)
- Over 120 dB of dynamic range - no transmitter gain adjustments needed
- AES 256-bit encryption for secure transmission
- Up to 9 hours continuous use with 2 x AA alkaline batteries
- Optional Shure SB900A lithium ion rechargeable battery provides up to 10 hours of continuous use and reports remaining runtime in hours and minutes
- External charging contacts for docked charging
- Backlit LCD with easy to navigate menu and controls
- Selectable display mode showing group/channel, frequency, or battery runtime
- 100 meter line-of-sight operating range
- 4-Pin male mini connector (TA4M)
- Rugged metal construction
- Detachable ¼ wave antenna
- Frequency and power lockout

## Product Specifications

<b>Mic Offset Range</b>	0 to 21 dB (in 3 dB steps)
<b>Battery Type</b>	Shure SB900A Rechargeable Li-Ion or AA batteries 1.5 V
<b>Battery Runtime</b> @ 10 mW	Shure SB900A: up to 10 hours Alkaline: up to 9 hours
<b>Dimensions</b>	86 × 65 × 23 mm, H × W × D
<b>Weight</b>	138 g, <i>without batteries</i>
<b>Housing</b>	Cast aluminum
<b>Audio Input</b>	
<b>Connector</b>	4-pin male mini connector (TA4M)
<b>Configuration</b>	Unbalanced
<b>Impedance</b>	1 MΩ
<b>Maximum Input Level</b> 1 kHz at 1% THD	8.5 dBV (7.5 Vpp)
<b>Preamplifier Equivalent Input Noise (EIN)</b> System Gain Setting ≥ +20	-120 dBV, A-weighted, typical
<b>RF Output</b>	
<b>Connector</b>	SMA
<b>Antenna Type</b>	1/4 wave
<b>Impedance</b>	50 Ω
<b>Occupied Bandwidth</b>	< 200 kHz
<b>Modulation Type</b>	Shure proprietary digital
<b>Power</b>	1 mW or 10 mW <i>See Frequency Range and output power table, varies by region</i>

## Microphone Options (see catalog for more)

<b>SM35</b>	SM35 Condenser Headset Microphone, Cardioid
<b>MX150/O</b>	MX150 Condenser Lavalier Microphone, Omnidirectional
<b>MX150/C</b>	MX150 Condenser Lavalier Microphone, Cardioid
<b>WL183</b>	WL183 Condenser Lavalier Microphone, Omnidirectional
<b>WL184</b>	WL184 Condenser Lavalier Microphone, Supercardioid
<b>WL185</b>	WL185 Condenser Lavalier Microphone, Cardioid
<b>WL93</b>	WL93 Condenser Lavalier Microphone, Omnidirectional
<b>WB98H</b>	WB98H/C Condenser Instrument Clip-on Mic, Cardioid
<b>MX153B</b>	MX153 Condenser Headset Microphone, Omnidirectional, Black
<b>MX153T</b>	MX153 Condenser Headset Microphone, Omnidirectional, Tan



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